VOLUME 2, NUMBER 5 OCTOBER 1986
$2.95
CHEAP

Exploring the EPSON WORLD

In This Issue:

- The Rising Star Fades
- Riding the Dead Horse
- User Group Activities
- CR-103 Modifications

And a lot more to tickle your tummy!

Software Critics Agree

SmartKey II Plus dramatically speeds up and improves accuracy in computing by letting you reduce multiple keystrokes to the touch of a single key. Thousands of practical applications. Available for both CP/M and MSDOS computers. Works to speed up your computing even while operating other software.

NEW!

SmartKey II Plus Combo Pak $49

—includes SmartPrint II Plus and Screen Smarts

Teach SmartKey to recall software commands, words, paragraphs, or entire pages of data at the touch of a key. Make a series of "smartkeys" out of most of the keys on your Epson. Store "smartkey" definitions in a special file. Call them up whenever you want to run a favorite program or work on a project. Imagine saving complex software command codes, boilerplate paragraphs, inventory numbers, or whatever, and then injecting any of them into your work with the stroke of a key. SmartKey will not interfere with the regular operation of your keyboard. Indeed, SmartKey enhances your keyboard.

The Critics on SmartKey

- "Excellent..." *InfoWorld*
- "Works like a charm..." *MicroSystems*
- "A must for every computer..."
  Peter McWilliams, author
  The Word Processing Book
- "SmartKey is a utility I recommend...
  ...The result is less frustration and greater speed and accuracy in entering data."
  John D. Yoder, PhD
  Reviewer — Epson Connection
- "...SmartKey is considerably easier to learn
  ...SmartKey would be my choice..."
  Bob Hermann
  Reviewer — Epson Connection

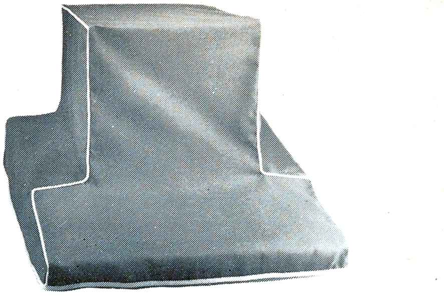
Central's super priced **$49** *SmartKey II* combo pak includes *SmartPrint II Plus*, a program that greatly enhances the operation of dot matrix printers, and a free copy of Paul Golding's $15.95 book, *Screen Smarts, The Computer Tamer's Guide*. This book tells how you can use SmartKey to turn your computer into a supercharged mean machine. Order today to get this hard hitting $115 software & book combo for only $49.

Perfect Epson Stand

Simple, strong, sturdy, safe. These words describe an attractive stand that provides a perfect spot to place your Epson computer and monitor on. This stand is made from rounded, steel rods covered with a thick, shiny, soft, black polymer material that protects your Epson and table top from scratches. Unlike flat wood or acrylic panels used in other stands, the tough supporting rods of the Smart Stand (TM) do not obstruct air flow. Since your Epson is lifted off the table top and fully supported by this stand, air flows freely all around your computer to help keep it cool. When you need more space, simply slide the keyboard completely under the stand to create a working area on your desk. The Epson Smart Stand is a super value at $34. Try it for 15 days risk free. If not completely satisfied, return it for full refund. Matching 80 or 132 column printer stands are only $21.95. Order today. Get it fast.

Introducing A Classic Form Fitting Epson Cover

Now Available. Equity computer form fitting covers.
Same low prices and quality tailoring.



Matching sailcloth covers for all Epson and ComRiter printers: $15.95.
Please indicate make and model of printer.
New. Special 2-piece computer covers: $23.95 per set.

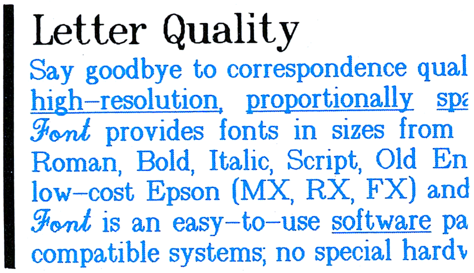
At last, the classic Epson dust cover you'll be proud to own and use. This first rate computer cover is made from a premium, lint free, static free, washable, free breathing, and fade resistant sailcloth. It comes in a rich looking Navy blue or Sand. The Navy cover has a smart contrasting silver gray piping and trim that adds a superior finished look. Not to be outdone, the Sand cover is handsomely finished in a rich chocolate piping and trim.

For a limited time only, your price for this factory direct, custom made, one-piece sailcloth Quality Cover is $19.95. When ordering remember to indicate color preference. This special low price is subject to change. You must be completely satisfied with your purchase of this cover or we will refund your money immediately. Order today.

- Quality tailoring
- Easy care fabrics
- Attractive colors
- Professional appeal

Richly tailored inside and out. Look inside any of our Quality Covers; see the ultimate finishing; we use machines that sew with 3 needles so that edges will not unravel or shed lint. We stress perfection because you deserve the best. Compare for long-lasting satisfaction.

FACTORY DIRECT



Letter Quality

Say goodbye to correspondence qual
high–resolution, proportionally spa
Font provides fonts in sizes from
Roman, Bold, Italic, Script, Old En
low–cost Epson (MX, RX, FX) and
Font is an easy–to–use software pa
compatible systems; no special hardv

Actual sample produced by an MX-80 and Fancy Font.

Incredible Printing Machine

Your Epson printer is going to get even better. *Fancy Font* can make it into an incredible printing machine. The *Fancy Font System* is a software program that turns the bits and bytes generated by your computer into over 30 font sets in sizes from 8 to 40 points that can be printed on any Epson MX80 with Graftrax, Epson FX or RX printer, or Gemini 10X printer.

Fancy Font styles include Roman, Bold, Italic, Script, Old English, and more. In addition, custom forms, invoices, labels, signs, foreign languages, mathematical notations, view graphs, resumes, newsletters, brochures, complete manuals, invitations, place cards, and high-resolution, proportionally spaced, letter quality business and personal letters can all be printed on your Epson printer with *Fancy Font* at the helm. *Fancy Font* is a product of SoftCraft Inc. You may have seen SoftCraft's national ads. They are printed with *Fancy Font* on an Epson printer. The ad is powerful visual medicine. The list price for the fully documented *Fancy Font System* is $180. Central's price is only $159. Order *Fancy Font* today and add an amazing sparkle of creativity to all your printed materials. Please indicate name and model of your printer when ordering. *Fancy Font* will make your Epson printer and Valdocs or CP/M word processor come alive. It's magical.

MORE ON NEXT PAGE ➡

Radiation Screen

It's true. Computer terminals shoot dangerous ionizing x-rays at the operator. Exposure to ionizing radiation is cummulative. It doesn't wear off. Bit by bit, it keeps piling on. Too much exposure can lead to radical molecular changes. The kind of changes in the body that express themselves in cancer.

Sure, medical professionals use x-radiation to take pictures of the inside of your body, and to look through your face at your teeth. But, they know the danger of exposure to x-rays. That's why, when they work they stand behind lead impregnated shields. They're smart. They protect themselves.

If you're a computer user, the solution isn't to throw your computer out the window. It's easy to protect yourself against the ionizing x-rays that shoot out at you from your video display terminal. A company called ACCO International makes an excellent combination lead impregnated radiation shield and anti-glare screen that easily attaches to your terminal. It works. In fact, an independent study found that for every 1,000,000 x-rays your video display terminal shoots at you, only 125 will pass through the ACCO Shield. Solid protection.

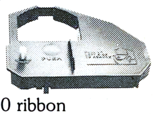
The ACCO Radiation Shield is just like the ones used in hospitals, nuclear power plants, and at military stations. It's made from a lead impregnated, impact-resistant acrylic. Although the ACCO Shield is 30% lead, you can see through it. The ACCO Shield also doubles as a superior anti-glare screen that reduces glare and other bothersome reflections. The list price of the ACCO Radiation screen is $149. Central's price is $99. Order today. Satisfaction guaranteed. 15 day money back trial. Also comes with a free report that tells how the ACCO Shield stops radiation. Order today.

Attention: Consider that working at a video display terminal is like holding your face about 18 inches from a television screen many hours a day, five days a week. Protection makes sense. Order today.

Lockable Diskette Defender

Handsome, sturdy, smoke-tinted acrylic tray holds 70 Epson-size diskettes. Flip-up lid keeps out dust, debris, and moisture, and locks securely to guard your important work. Comes with 7 dividers with index tabs for easy filing and to keep floppies upright to prevent bending, warping, and scratching. Tough and secure metal lock never comes in contact with diskettes because it is enclosed in a special plastic housing. Super value at $22.95 for one, or $21.00 each if you buy 2 or more. Keep prying eyes and sticky fingers away from your data. Order today.

LQ 1500 Users



Compare and save. Epson's LQ 1500 ribbon gives you 3,000,000 characters. Our top quality LQ 1500 ribbon produces 4,500,000 characters. Epson's list price is $17.50 per ribbon. Our price is $49 for box of six ribbons. In stock. Order today. Complete Satisfaction Guaranteed.

800-533-8049 USA
800-624-5628 CA

Product Description	List	Central
Epson CP/M and MSDOS Software		
ATI TRAINING DISKS		
CP/M	$ 39.95	$ 34.00
MBasic	$ 39.95	$ 34.00
Multiplan	$ 75.00	$ 59.00
SuperCalc	$ 75.00	$ 59.00
Wordstar	$ 75.00	$ 59.00
Training software. Speeds learning. Gives fast results.		
BORLAND INTERNATIONAL		
Turbo Pascal 3.0	$ 69.95	$ 58.00
Turbo Toolbox, Software Tools	$ 54.95	$ 47.00
Turbo Tutor, Step by Step	$ 34.95	$ 32.00
Turbo Holiday Pak, All the Above	$129.95	$ 99.95
CDE SOFTWARE		
Checks & Balances, Home Accounting	$ 74.95	$ 65.00
CONSULTANT SYSTEMS		
The Real Estate Consultant with The Creative Loan Consultant	$399.00	$349.00
Don't buy or sell property without this software		
CUSTOM PROGRAM HOUSE		
Banner Plus	$ 37.95	$ 19.95
— Print you own huge banners & messages		
DIGITAL MARKETING/PRO TEM		
Bibliography	$ 99.00	$ 89.00
Milestone, Project Manager	$ 99.00	$ 89.00
Random House Speller	$ 50.00	$ 47.00
— Call for WordStar enhancing DM/PT products		
EXECUTIVE SOFTWARE		
Decision Analyst, Business Tool	$139.00	$124.00
FYI, INC.		
FYI 3000	$295.00	$250.00
INFOCOM		
Zork I	$ 39.95	$ 37.00
Zork II & III each	$ 44.95	$ 42.95
PlanetFall	$ 39.95	$ 37.00
Witness	$ 39.95	$ 37.00
— all other Infocom series instock, please call for prices		
MENDOCINO SOFTWARE		
Eureka, Automatic Disk Cataloger **NEW**	50.00	$ 47.00
MICRONOVA		
FontStar, Print Bright WordStar	$ 49.95	$ 48.00
MICROPRO		
WordStar	$495.00	$219.00
Mail Merge	$ 99.00	$ 89.00
MICROSOFT		
MultiPlan	$195.00	$139.00
MBasic Compiler	$295.00	$259.00
MICROSOLUTIONS		
Uniform	$ 69.95	$ 59.95
— reads & writes 90 + compu-formats including PC/MSDOS		
MYCROFT LABS		
Mite Communciations	$150.00	$121.00
OASIS SYSTEMS		
The Word Plus	$150.00	$115.00
Punctuation and Style	$125.00	$ 99.00
PEARLSOFT		
Personal Pearl	$295.00	$125.00
PLU-PERFECT SYSTEMS		
CP/M DateStamper	$ 49.00	$ 47.00
SAN FRANCISCO COMP		
Power, CP/M Tamer	$169.00	$ 99.00
DocuPower	$169.00	$ 99.00
SOFTAIDS		
MTBasic Compiler	$ 49.95	$ 47.00
SOFTWARE TOOLWORKS		
Airport, Traffic Controller	$ 19.95	$18.00
Autodiff	$ 29.95	$ 27.00
C/80, C Language	$ 49.95	$ 47.00
Eliza	$ 24.95	$ 23.00
Word Wiggle	$ 29.95	$ 28.00
MyChess	$ 34.95	$ 29.95
Reading Professor, Speed Read	$ 59.95	$ 57.00
— for all other Toolworks programs, please call for prices		
SOFTWARE RESEARCH TECH		
Touch 'n' Go, Typing Tutor	$ 29.95	$ 26.00
dFastest, dBase file supercharger	$ 79.95	$ 69.00
SORCIM		
SuperCalc 2	$295.00	$228.00
TELION SOFTWARE		
Free Filer	$ 49.95	$ 47.00
Language Tutor	$ 49.95	$ 46.00
Memory Trainer	$ 49.95	$ 46.00
UNISON WORLD		
Printmaster Graphics **NEW**	111 pics	$ 49.95
Art Gallery I Graphics	140 pics	$ 49.95
Creative Printmaster book	$ 13.95	$ 12.50
— Get *Creative* book free with purchase of both programs		
WRITING CONSULTANTS		
Word Finder, 90,000 Synonyms	$124.00	$ 74.00
Supplies		
3M DSDD Diskettes	10/box	$17.00
3M Head Cleaning Kit	$ 32.00	$ 21.00
PowerMax, 250 Watt UPS	$459.00	$399.00
Finger Print "Letter Writer"	$ 79.95	$ 74.00
QX-10 User's Guide, Hansen	$ 17.95	$ 15.95
Screen Smarts, Computer Tamer	$ 15.95	$ 12.95

Prices, specifications, and offers subject to change without notice.

Software to Boost and Keep High Scores

Now you can help your child boost or maintain his grades. It's easy. Resource Software International's educational programs are specially made to help kids get to the top and stay there.

Imagine this. If properly prepared, your boy or girl can be accepted by the college of your choice — no matter how many other students are clamoring for admission. RSI software is created by educators. It lets the child choose the pace of instruction. Challenging computer assisted learning at its best. Available for both CP/M and MSDOS computers. The list price of these programs is $39.95 each. Central's price is only $37 each. They are fun, educational, and easy to use. Order today.

Description	Grade Level	Description	Grade Level
Let's Have Fun Counting	1-3	Algebra	8-college
Simple Addition	1-3	Trigonometry	8-college
Let's Have Fun Subtracting	1-3	Geometry	8-college
Long Division	3-4	Elementary Chemistry	8-college
Funzeez	2-5	Basic Inorganic Terminology	8-college
Learning and Using Fractions	5-7	Chemical Symbols	8-college
Learning and Using Decimals	5-7	Inorganic Nomenclature II	8-college
Vocab Building	4-7	Metrics	7-12
Verb I	6-8	High School Entrance Exam	6-8
Letter Writing	6-8	SAT Score Builder	10-12

Text Filing Machine

Now, Epson users can turn their computers into powerful text filing machines. *SuperFile* is a textual matter database manager unlike any other. It puts you in control of your information. It allows you to easily store and retrieve notes, letters, random thoughts, contracts, depositions, invoices, new product information, sales reports, reference articles, scripts, abstracts, bibliographies, customer profiles, photo or slide locations, and much more. *SuperFile* accepts as many as 65,000 entries per database; allows 512,000 keystrokes per record, each of which can have up to 250 keywords; and indexes information you've stored on as many as 255 diskettes per database. Powerful.

Input for a *SuperFile* database comes from your word processing Valdocs, CP/M, or MSDOS program, so you can easily include information you already have into a database without having to re-key it. No fancy fields to define. This is a completely free-form database system. No programming language to learn. There's nothing difficult here. You can be up and running within minutes. *SuperFile* uses logical searching procedures to find your information fast. Tell *SuperFile* what information you want, and it searches from 60 to 400 entries per second. Save yourself the time and effort of filing and cross-filing information by hand or in overly structured data fields. The list price of *SuperFile* is $195. Order today to get *SuperFile* at our current low price of $155.

Full Power Computing

T/Maker Integrated is a highly acclaimed powerhouse program that can turn your CP/M Epson into a computing workhorse. At last, you can enjoy productive computing like never before. Imagine doing full-featured word processing, relational database management, spreadsheet analysis, horizontal bar chart graphics, and checking your spelling all within the same program. No more switching back and forth between barely compatible programs to accomplish these simple tasks. *T/Maker Integrated* is universally acknowledged as a unique integrated software system that is just plain easy to learn. Now, there is an alternative to doing things the hard way. *T/Maker* can put the hidden and largely untapped power of your Epson at your command. *T/Maker Integrated* is regularly $450. Central is proud to offer this outstanding package for the low, low introductory price of $189. Yes, this includes the entire feature-packed T/Maker package, so please treat yourself to this excellent super productive software today. Experience the power of true software integration on your Epson. Order T/Maker today. Offer may not repeat, so order now.

Central Computer Products

Consult the Oracle

NEW!

Wow! The *I Ching* on computer. There's nothing like it. This great self-reflection aid can help you get in touch with your subconscious mind. The *I Ching* or *Book of Change* is not a party game. But it's highly entertaining. Ask it for advice and receive it in seconds. Amazing.

The *I Ching* or *Book of Change* seems to give you the ability to peer into the future. Helps you see where you've been and where certain courses of action could take you. In this sense, the *I Ching* is like a trusted oracle. Someone to consult in time of need. You'll marvel at the I Ching's depth. It's both mysterious and practical. If you've had contact with the *I Ching* before, you'll find this software faithful to the original manuscript. The only difference is you consult this program through touching the spacebar to develop your hexagrams. Very easy to use. The list price of Software Country's *I Ching* or *Book of Change* program is $39. Central's price is $36. Order today to get fast.

CENTRAL COMPUTER PRODUCTS
330 Central Avenue, Dept. R2
Fillmore, California 93015
(805) 524-4189

Dear Central,

Please send me the items listed below. I want fast friendly service. If I have ordered SmartKey, remember to send me my free copy of *Screen Smarts, The Computer Tamer's Guide*. My check, money order, or credit card number is enclosed. Thank you.

Description	Price

Epson Model ____________ Sub Total ________
CA Resident 6% Tax ________
Postage & Handling $ 3.00
Total $ ________

FIRM MONEY BACK GUARANTEE ORDER WITH CONFIDENCE

☐ Navy blue Cover ☐ Sand Cover
☐ Check enclosed ☐ Money Order enclosed
☐ Visa/Mastercard # ____________
☐ AmerExp Card # ____________
Exp. Date ________ Sig. ____________
Day Phone: (   ) ____________
Name ____________
Address ____________
City ____________ State______ Zip ________

Credit card phone orders accepted. **Call Toll Free.**
To order by mail use coupon, letter, or photo copy. Thank you.

© 1986 Central Computer Products

Epson World

October 1986 Vol. 2, No. 5

Articles

Rising Star Enters Chapter 11 4
The end of an era seems near.

Planning a Major User Group Activity 6
Here's how one group did theirs.

LePrint: A New Typesetting Program for MS-DOS 9
Add a laser printer and you could publish a magazine.

CR-103 Modification Improves Operation with V2 and V3 28
It only takes 10 minutes and nerves of jello.

Departments

The Valdocs Chronicles 16
Use Out-Think with V+III for greater horsepower.

Users Report 22
RSI is a hot topic this month. It'll burn your ears.

Language Lab 19
Pascal sound routines for the QX-10.

MS-DOS Express 26
Batch files in MS-DOS-land.

Write, Edit, Publish! 12
Desktop publishing revealed; little touches, big differences.

The Mail Bag 30
Our readers tell it the way it is.

Disk of the Month 11
A winner for CP/M-Valdocs, another for MS-DOS.

Finnegan's Flea Market 33
Classified advertising at its best.

Reviews

Dataflex 14
A DBM that works on anything from CP/M to VAX computers.

The Home Money Manager 14
A CPA rates it the most improved program in 1987.

After Hours

Riding With the Dead Horse Computer Company 34
Revolutionary spell checker now released.

Advertisers Index 36

Editor
J. M. Hansen

Associate Editor
L. J. Brown
John Whiting

Consulting Editor
Stan Miastkowski

Contributing Editors
Robin Perry
Paul Zonka

Advertising Sales Director
Joe Lore

Circulation and Business Manager
Pat Hansen

Business Services
Susan Hansen

Publisher
Jim Hansen

Editorial and Business Offices
PO Box 369
31 Briar Hill Road
New Boston, NH 03070

Phone Epson World at:
(603) 487-2500 (voice)
(603) 487-2501 (BBS)

Epson World is published monthly by PJ Industries, Inc., PO Box 369, New Boston, NH 03070. Application for second class rates pending at New Boston and additional mailing offices. Postmaster: Address changes to EPSON WORLD, PO Box 369, New Boston, NH 03070. Copyright 1986 by PJ Industries, Inc. All rights reserved, but we are generous when dealing with Epson user groups and users.

EPSON WORLD is an independent publication of PJ Industries, Inc. and is not affiliated in any way with Epson America, Inc. Epson, HX-20, Geneva, PX- 8, QX-10, QX-16, and Equity are trademarks of Epson Corporation.

Contributors:
Manuscripts, photos and other editorial material are welcomed, however we assume no responsibility should they be lost.

Subscriptions:
Subscriptions are $32 for 12 issues. Please inquire for delivery rates outside the U.S. Dealer inquiries invited. Sorry, you lose. Maybe again some time.

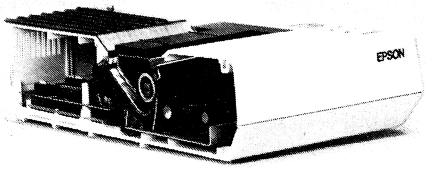
ISSN 8755-1047

Attention all FX80, FX100, JX, RX, & MX owners:

You already own half of a great printer

Now Only $79.95

Dealer inquiries welcome.



Now for $79.95 you can own the rest. You see, today's new dot matrix printers offer a lot more.

Like an NLQ mode that makes their letters print almost as sharp as a daisy wheel. And font switching at the touch of a button in over 160 styles. But now, a Dots-Perfect upgrade kit will make your printer work like the new models in minutes— at a fraction of their cost.

And FX, JX and MX models will print the IBM character set, too.

So, call now and use your Visa, MasterCard, or AmerEx. Don't replace your printer, upgrade it!

1-800-368-7737
In California: 1-800-831-9772

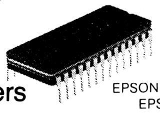
Sample of letter with Dots-Perfect

Dots-Perfect™

Sample of letter without Dots-Perfect

Dresselhaus

837 E. Alosta Ave., Glendora, CA 91740 Tel: (818) 914-5831
An upgrade kit for EPSON FX, JX, RX, & MX printers



EPSON is a trademark of EPSON America, Inc.

DISCOUNT DISKS

5¼" DS/DD 59¢

BOXED WITH TYVEX SLEEVES, LABELS, TABS, HUB RINGS

CERTIFIED 100% ERROR FREE AT A STUNNING 75% ABOVE INDUSTRY STANDARDS. IT'S 10 MIL JACKET IS 25% HEAVIER THAN ALL OF THE MAJOR BRAND JACKETS. THE BEST DISC WE SELL AT ANY PRICE.

Shipping $3.00 per hundred or part, APO, FPO, AK, HI, & PR add $6. Visa or Mastercard orders under $50 add $2.00. Orders under $30 add $3 serivce charge. Money orders, cashiers checks, and personal checks earn a 2% discount, but personal checks delay shipment for up to 14 days for clearance. New Jersey residents add 6% sales tax. We ship COD cash or certified check only for a $3.00 charge.

VISA | MasterCard

GREEN TREE
COMPUTER SUPPLIES

P.O. Box 249
11 Osage Road
Rockaway, N.J. 07866

(201) 627-9472
(800) 367-2897

Rising Star Enters Chapter 11

By The EW Staff

Rising Star Industries, nearing bankruptcy, seeks protection from creditors. If RSI owes you product or a refund, you should file a claim at once! Here's how.

The bad news came on September 18 as Rising Star filed for protection under Chapter 11. Assigned to Judge Lasarow at the US Bankruptcy Court in Los Angeles, the case file was signed by Gale Carr, VP of RSI and former wife of Chris Rutkowski, the company founder.

Bluntly speaking, this means that RSI is financially insolvent, and that under court guidelines it will seek reorganization and attempt to stay in business. In practice, not many companies make it out of Chapter 11, and simply vanish in the night. Reports circulating indicate that probably no active effort will be made to save the company from total bankruptcy, and that it will go into Chapter 7 instead.

We at EW were not surprised by this news, but it was distressing to find that most of the 558 creditors listed in the bankruptcy file are banks, suppliers and former RSI employees. Few (if any) customers are listed. It would appear that RSI decided to forgive themselves of the debt owed those who have paid for product never delivered.

Hundreds, if not thousands, in the Epson community have paid RSI for software, software updates, mice, hard disks, SemiDisks, etc. but have not received the complete package ordered or a refund of the monies owed. The problem seems widespread. We at EW get 4 or 5 calls a day from people wondering what they can do.

The typical caller reports being told by RSI that a refund check would be mailed within two weeks, that the material ordered was just about to go out the door, that the orders were lost in some type of computing accident, that the recent moves had scrambled and temporarily lost records, that some horrible ex-RSI staffer had screwed things up on the way out the door or some variation on these themes.

One caller told of ordering a PRO Systems hard disk. After three months he was promised that a refund would be in the mail in two weeks. About that time PRO Systems sent him the disk, which he returned, expecting the refund any day. Turns out, he says, that the refund never came, and that PRO Systems told him they hadn't been paid by RSI for the disk either. Bad news.

Another person known personally to your editor has been waiting since November of '85 for a SemiDisk or return of his money. Other people are simply out their "final" updates, a mouse or delivery of the Valdocs software they paid for. A caller today (October 10) reported paying for a TPM manual months ago and never receiving it.

Legally, there is little you can do by yourself to collect on small amounts owed; it would cost more to press a suit than you'd recover. However, there appears to be a growing concern from the US Post Office over increasing numbers of complaints. Further EW has learned there is a federal investigation of RSI in progress on non-postal matters. Several ex-RSI staffers have been interviewed by federal agents and promptly sworn to silence.

If you have sent money to RSI and whatever you ordered has not been delivered, you should do two things. First, file a "Proof of Claim" form available from the Clerk's Office in any Federal Bankruptcy Court or most stores that sell legal stationery. Fill out the claim referencing Case File 2:BC-86-0017357, "In Re Rising Star Industries, a California Corporation, Debtor." The claim should then be sent to The Office of the Clerk, United States Bankruptcy Court, Central District of California, 312 North Spring Street, Los Angeles, CA 90012.

Next, contact your local postmaster and advise that merchandise you ordered from RSI has not been delivered, and that you wish to file a complaint. Your request will be forwarded to the Post Office Inspection Service who will send you a form to fill out and register your claim. We have been advised that the Post Office is seriously looking into RSI activities.

RSI—Continued on page 8

OKIDATA MODEL 92

Parallel and Serial 160 cps - 40 cps - NLQ 10" Carriage

LIST $699

COST $259

SOFTWARE SUPER SALE!!

BRAND NEW FACTORY SEALED SOFTWARE

RUNS ON IBM OR IBM COMPATIBLES

ORIGINAL VALUE OVER **$3000.00** OF SOFTWARE

YOU GET:

- Perfect Writer (Word Processor)
- Perfect Speller (Spell Checker)
- Perfect Calc (Spreadsheet)
- Perfect Filer (Data Base Manager)
- Fast Graphs by Innovative (Color Reports)
- Home Accountant Plus by Continental
- Asynchronous Communications
- Space Commanders
- GW Basic/Basic A
- MS/DOS 1.25

YOUR COST: $249.95

Limited Quantities!! HURRY!!! AMAZING!!

(Basic May Not Run On All Computers CDP-Perfect Series-Version 1.0)

LUXOR-Hi Res 14" Color Monitor

IBM Compatible-640 x 200-RGB

Cable Included DOT Pitch -.31MM

List $895

Cost $299

Amazing Value

QX-10 or QX-16 SOFTWARE

BRAND NEW! — BELOW DEALER COST!!

D-BASE-II - CPM-80 Version 2.4 Release 2.2 Data Management System

LIST $495 SAVE 70% COST $149.95

Peachtree - Accounting 4-Pak

	List	4-Pak
General Ledger	$595	List $2380
Accounts Receivable	$595	SAVE 83%
Accounts Payable	$595	Cost
Peach Pay Payroll System	$595	$395.95

Wordstar by MicroPro - CPM-80 Release 2.2 or later Word Processing Program - One of the Best!

LIST $350 SAVE 70% COST $99.95

Peachtext-5000 by Peachtree

Personal Productivity System includes: Peachtext - Word Processor, Spelling Proofreader, Peachcalc -Electronic Spreadsheet - Random House Electronic Thesaurus and List Manager

LIST $295 SAVE 70% COST $99.95

FRIDAY BY Ashton Tate - CPM-80 version 2.2 File Handling System for: Invoices, inventory, paychecks, customers, suppliers, sales, job costs, custom reports, form letters, mailing labels and more

LIST $295 SAVE 70% COST $89.95

Personal Pearl by Pearlsoft

Data-Base and Information Management System

LIST $295 SAVE 70% COST $89.95

QX-Draw by American Small Business Computers Graphics Design tool -Version 1.5 - Draw figures, charts, schematics or blueprints.

Requires CPM- 2.2 or later

LIST $350 SAVE 70% COST $99.95

Mailing List Manager by Peachtree

8 Lessons included - Professional Mailer Program

GIVEAWAY PRICE $49.95

Personal Calender by Peachtree

7 lessons - Daily Scheduling -Reviewing Appointments, Reminders, Events, Meetings - more

GIVEAWAY PRICE $39.95

Telecommunications by Peachtree

for CPM-80-R 2.2 - Version 1.2

GIVEAWAY PRICE $24.95

CPM-UPGRADE by Digital Research

Release 2.2 - Version B2.25

GIVEAWAY PRICE $29.95

WE BOUGHT THEM ALL!!

ORIGINAL LIST: $2895

ESPRIT SYSTEMS

(MANUFACTURER OF THE ESPRIT TERMINALS)

ESP-9310

THE BEST PC/XT FULLY COMPATIBLE IN THE THE USA!!

ESPRIT SYSTEMS QUALITY - NOT A CHEAP CLONE!

ESPRIT - 1 YEAR PARTS & LABOR WARRANTY! - TOLL FREE SERVICE

STANDARD FEATURES:

8088 Microprocessor - 4.77 MHZ
256K RAM — Expandable to 640K
1 or 2 **TEAC** - 360K Drives with Controller
5 IBM Expansion Slots
Monochrome Adapter with Parallel Printer Port
Tilt & Swivel Monitor Base
2 - Serial Ports - Slide Case
IBM PC Style Keyboard Caps Lock and Number Lock Indicators
8087 - Co-processor Socket
DOS 2.1 with complete set of manuals
64K Byte Printer Buffer in terminal mode
Heavy Duty Power Supply
Fully IBM Compatible
Fully Assembled and tested in the USA
FCC-Approved - and UL Approved
30 Day Money Back Guarantee

OPTIONS:

TTL - Monochrome Monitor	$85
10 MB Hard Drive and Controller	$299
20 MB Hard Drive and Controller	$399
256 K Memory Upgrade	$55
Clock Calendar Card	$39

1 Drive System COST: $599

2 Drive System COST: $639

Electrified Discounters

WE WILL SAVE YOU MONEY!

996 ORANGE AVE.
P.O. BOX 151
WEST HAVEN CT 06516

(203) 937-0106

MasterCard DEALER INQUIRIES INVITED VISA AMEX

$2 refund on all telephone orders over $100

All Prices Listed are Cash Discounted. Add 2½% for MasterCard, Visa or AMEX. Not Responsible for Typographical Errors. Prices are Subject to change Without Notice. Conn. Residents Add 7½% sales tax.

IBM is a registered trademark of International Business Machines, Inc.

Planning A Major User Group Activity

By Jim Hansen

Most user group activities simply involve a monthly meeting. Here's how the Epson Band and Bugle Club ran a mini-computerfest. It's easy and a lot of fun.

Last summer our club decided we should plan a picnic outing somewhere near the Manchester, NH area. Little did we realize that by the end of the project our little band of about 35 members (maybe 18 active) would be running a real computerfest with something over 90 attendees coming from six states.

As seems typical, our group is made up of three member categories: an inactive group that for reasons known only to themselves never attends meetings but renew membership year after year; another group that comes to all the meetings, seemingly only to be entertained by the third category, usually only two or three in number who keep the group alive.

The Epson Band and Bugle Club has tried three meeting places. First was Howard Johnson's who would let us meet there if everyone tried to choke down one of their less than perfect confections. This was given up for a Mexican place that had much better food, but no real meeting room, and finally we settled on the Bonanza Restaurant in Bedford, NH, next to Manchester.

Unfortunately for us, a new manager has come on the scene and after more than a year of tranquility, he is demanding that "everyone" eat something, even though we meet on Monday nights when the joint is normally empty, and about three fourths of the group usually eat supper. We're starting to look for somewhere else to go, and after we find it, I plan to tell this clod where he can go.

In any event, last summer we decided a picnic would be a nice event. The club treasury had six or seven hundred dollars in it, so we all decided to have a club sponsored family outing. Being the President at the time, that really meant I was in charge of the whole works.

The first task, which turned out to be the hardest, was locating an acceptable place where kids could frolic, women socialize and men drink beer. There were a number of state parks around, but for some reason there is never any electrical power nearby and they frown on heavenly brew.

We checked on a couple of local colleges, but nothing came in at the right price; we were looking for something near the free range. Finally as a desperation act, I called the New Boston Town Office, and discovered we could rent the first floor of our 200-year old Town Hall for a mere $50, provided we cleaned it up after the doings.

More importantly, behind the building is a nice small town softball diamond with covered bleachers and a concession stand. These are owned and operated by the "Playground Committee" (Most public facilities in New England, except for the school, are owned by a committee. The school is owned by the School Board which is generally less intelligent that the kids attending it.)

Things fell into place when Holly Bowen, head of the Playground Committee agreed to open and run the concession stand and let us use the playground if we made a suitable donation. We agreed to pay $100 to the committee for that, plus the cost of the food. Holly provided the food and staff to cook it. We decided to have hamburgers, hot dogs, watermelon, potato salad and chips, a half dozen kinds of soda and most importantly, a keg of beer.

Naturally, we at the club liked the idea of not having to do any work, like getting the food taken care of, but the cost of the outing was now $150 plus whatever we ate. In one of those rare moments of inspiration, we decided to see what kind of a computerfest could be arranged.

Taking the bull by the horns, I called a few of the advertisers listed in Epson World (A terrific magazine. You should check it out.) and arranged for them to send ON CONSIGNMENT some of their wares, or if they were not willing to do that, a hundred or so brochures. We were also given a price break so the club could make a few dollars on the deal, and in most cases, we were given something for a door prize.

Thinking some personalities would be neat, I called RSI's Chris Rutkowski, Epson Connection's Carolyn McCarthy, and Chuck Champlin at Epson. All agreed to either attend or try to get someone to be there. As it turned out, we never heard from Chris or Carolyn; Chuck later backed out saying Epson couldn't handle the budget expense, and perhaps we could get someone from Epson North East to attend.

Epson North East was helpful; they provided an FX- 80 printer as a door prize and some display computer equipment, but, unfortunately, had absolutely no literature we could hand out, nor could they spare anyone to attend. Everyone, it seems, was going to Bermuda for some sort of sales rally the very weekend of our computerfest!

So, about a week into the project and about $25 in phone bills, we had a place to hold the event, food service, product coming in for display and sale, bunches of literature to hand out in a free plastic bag that someone provided, about a thousand dollars worth of door prizes, and, we thought, some great celebrities coming.

We had a problem deciding on how much food to order and how to handle the money for it. We didn't want Holly's group to have to play games collecting food money and we really didn't want to bother with much at the door.

Our solution was pretty simple, yet worked really well. First, the food part of the event was declared an all you can eat type of thing. People that registered got a stamp on the hand and could eat and drink their way into oblivion if they wanted. All the food people had to do was look for a purple smudge on the left hand.

Next, we encouraged preregistration by charging nearly double the admission price at the door than by letter. After figuring our break even point for the 30 people we absolutely knew would attend, we decided to charge $8 a head for adults, $6 for kids 12 and under, and $15 at the door. It's amazing how people like to save money.

Our publicity campaign really stank. We got a brief notice in the Epson Connection, Epson World was in another world at the time and missed it, and we put an announcement up on three or four BBS systems in the state. That was all there was. Even so, we got about 90 registrations, and all of them showed up.

We had a good day for the show, but it was advertised "rain or shine" just to make sure we didn't have to give any preregistration money back, although we would have if a cancellation had come in before the food was purchased. We wanted to make sure all our expenses were covered.

Our entertainment program consisted of an RSI Frisbee contest (RSI was once passing around little frisbees that glowed in the dark), door prize drawings, a telecommunication demonstration by Fritz Schaller and a talk about text processing by David Kolb.

I had originally thought that a softball game and other outdoors activities would have been a good idea, but as it turns out, most members of the Epson community aren't athletically inclined and besides, it was a hot day.

Interestingly enough, nobody seemed to notice that everything was being done with home talent, showing that it isn't necessary to have big names to have a good time and a successful computerfest.

Sales of product was impressive. We sold just under $1000 worth, averaging over $10 per person in attendance. Most of the sales were made after the main door prize drawing at the end of the day. This prize, the printer donated by Epson, was won by a couple on their way home from vacation. They lived in Pennsylvania, a million miles from New Boston.

Here are some of the things we discovered about Epson-type computerfests. First, we ran out of diet soda in the first three hours. Never mind that we had six different kinds of fizzy sugar water. The diet stuff went first. The kids drank it all. I helped try to empty the beer keg but it was still half full at the end of the day.

We really didn't have to do a lot of entertaining. People seemed to enjoy just talking to each other about their favorite computer. In fact, it was so noisy that door prize drawings were sometimes hard to announce.

We didn't have anyone show up with used stuff they wanted to sell. That was a real disappointment to a junk collector like me, but reflects the way the Epson community behaves. We largely bought an appliance that has satisfied us,

Activity—Continued on page 8

Activity—Continued from page 7

and it will never be declared surplus.

In the sales category, we had probably 10 or 15 book titles and the only ones that sold at all were two titles published by Aames-Allen "Word Profits at Home" and "Publicity for Books and Authors". Software titles that sold included MYCHESS, Nickelodeon's HOME MONEY MANAGER, I CHING, QX-COMPOSER and SMALL-C. The Dresselhaus Fingerprint upgrade kit for FX-80 computers was a complete sellout. A dozen of them, poof!

We ended up with a large surplus of potato salad (we started with 10 pounds) and a little of everything else. We figured on 2 hamburgers and a half a hot dog per adult, 1-1/2 hotdogs per child, and had plenty left over. Being summer, we estimated three cans of soda for kids, 1-1/2 for adults. Most of the coffee was thrown out. Only about 3/4 of a good sized watermelon was used, but that may have been because we forgot we had it until after everyone had eaten.

So, this is how we ran our computerfest. It started as a simple picnic, but became a no-cost effort to the club that everyone enjoyed. In fact, we ended up with a profit even though we tried to break even.

Epson World has already talked to our Canadian friends at EPSNLINK, and we have agreed to plan an international computerfest for sometime next year. Anyone want to come? OK, now who wants to help work on it? We can use some volunteers. (Free admission and eats!) Write us at the Computerfest Committee (and you know who that is right now don't you?) here at Epson World.★

RSI—Continued from page 4

Finally, if your purchase was made via a credit card, you can contact David Doliber of the Treasury Department at 202-447-1600 who can advise you of your rights and obligations as a credit card user.

It is with mixed emotions that EW has to publish information such as the above. Your editor, who once worked for RSI, is well known for his love of the Epson product line. However if you listened to the calls - literally hundreds over the last month or two - you'd wonder how this "rip off" (a polite term in this case) has gotten so far. In raw numbers of dollars, the consumer loss in this case is going to be one of the largest in computer mail order history.

We at EW do not feel there was malicious intent on the part of RSI, but there are a number of amazing coincidences. Val-Ware Distributors was formed as the "exclusive" distributors of RSI products. This company was or is staffed almost entirely by former RSI people, making it an RSI company in name if not in fact.

In a copy of a letter received at EW last month, RSI described income derived from Val-Ware as their sole source of revenue. Intentioned or not, this shielded sales income of RSI products from RSI's creditors.

It is also interesting that RSI managed to hang on for about six months after the formation Val-Ware. Is there some sort of legal benefit to be derived from this six month period?

We must also ask why RSI couldn't supply the Val+ final updates which consumers had purchased when they bought the Valdocs package. Val-Ware sells them for $49.95. Since anyone wanting these updates has to be "validated" by RSI before Val-Ware will supply them, it would appear the updates aren't a real product, meant for sale to the general public.

This tacky maneuver pays for the production costs of the package a second time (RSI was paid for them at the time of the original purchase) and probably establishes a monetary limit for whatever claims may be filed against RSI.

Even so, many customers have opted to pay this surcharge (some callers describe it as blackmail, others as piracy) to Val-Ware rather than wait forever for the updates.

EW has also talked to a number of staffers who claim to have seen (on several occasions) cash put into envelopes and given to a woman who happened to be flying to Switzerland that day.

Coincidentally, earlier this summer Chris Rutkowski described a three week trip to Switzerland he planned to take in August during an interview with Roger Strukhoff, former editor of EW. We can only wonder how he had the time or money to make such a trip as RSI whizzed down the hole.

You can read more of what our readers have discovered and think about the situation in this month's Mail Bag and the User Report column. It isn't pretty. We invite you legal types out there to help your fellow computerists by sending us at EW generic advice and commentary; we'll publish anything that will be useful to our readership. ★

LePrint: A New Typesetting Program for MS-DOS

By EW Staff

This software runs on QX-10/Titan and QX-16 computer systems when driving dot matrix printers. Laser printers can be driven from Equity systems equipped with a J-Laser interface.

Every once in a while clouds part and something good falls out of the sky. So it was last month when Bob LeBaugh sent EW a copy of his latest offering, LePrint. This modestly priced software works on nearly any MS-DOS computer system and produces high quality text output on most dot matrix printers.

LePrint comes on three floppy disks and is not copy protected. Installation on hard disk systems amounts to copying everything from the disks into a common directory called *LEPRINT*, then running what has to be one of the most elegant installation programs around.

The majority of the installation simply selects the printer to be used and the type of display on your computer. LePrint supports a wide variety of printers, so many in fact, that you first select the manufacturer from a menu, then the model number. Once this task is done, and it takes but a couple minutes, LePrint is ready to run.

You can look at LePrint as simply a *text formatter* something like a fancy Fancy Font. LePrint expects an ASCII file with embedded dot commands, similar in many cases to those used by WordStar. In fact, LePrint can typeset a WordStar file directly.

For those unfamiliar with dot commands, they are simply a two letter code that follows a period located in the first character position in a row. LePrint uses 38 different dot commands to control font selection, size, margins, bold face, centering, justification, and more. Many of the dot commands can be placed inside the text by enclosing them in curly brackets ({}).

Chances are you'll not use all of these commands, and fortunately so; over 121 pages were needed in the manual to describe them all.

LePrint offers no editing features at all and simply munches the text file you give it. It depends on you to envision how a page will look after it has been typeset and to provide the appropriate commands in the text.

For the beginner, this takes some doing because chances are you'll have no idea how various type sizes compare or how the typefaces will look against each other. You'll also have a challenge figuring out how all the commands inter-relate. At first typesetting like this is certainly *not* what-you-see-is-what-you-get; it is more like what-you-get-is-sort-of-what-you-tried-to-get.

In many ways it is like formatting a page using PeachText 5000, where various commands are typed as text with a preceding back slash. You can usually get an idea of how the words will be positioned on the page, but the commands themselves take space on the screen and distort the overall image. The initial struggle is not much different - or difficult - from that.

Any common word processor can be used for composition and editing. We used WordPerfect for editing and composition, but found that it insists on terminating ASCII files with hard carriage returns. Since LePrint automatically maintains margins, it considers hard returns to be "end of paragraph" markers, and thus problems arise, particularly when half a dot command imbedded in the text has been wrapped to the next line by WordPerfect. (LePrint doesn't recognize the command in a case like this.)

After playing around with the conflict, we developed a procedure that works well, yet is somewhat laughable. WordPerfect can be set so that the column width, combined with a proportional spacing font (we used 13*) set for 16 characters per inch will match the Times Roman columns typeset at 10 pitch by LePrint.

Sounds complicated, but as we gained experience, we soon

LePrint—Continued on page 10

LePrint—Continued from page 9

found that we didn't need to be so concerned about seeing the text on screen before it was sent to LePrint, and an inner sense of what we'd get was soon developed. True, it's more complicated than simply adjusting text on the screen to look right, but it is a skill easily and quickly acquired. You could say it is a matter of learning to "trust" the system to do its job combined with knowing how to tell it what to do.

LePrint comes with five standard typefaces (or fonts) including `Courier, Pica` and `Prestige Elite` typewriter-like fixed spacing fonts, and Times Roman and *Times Italic* proportional fonts. Optional fonts include **Clarendon, Helvetica**, L.C.D., Letter Gothic, Old English stylish Park Avenue, Greek, math and special symbols.

Nearly any combination of bolding, centering, justification and type sizes (measured in points) can be printed. Although the distance between lines can be adjusted in 1/48th of an inch increments, LePrint provides no control over the horizontal spacing of characters. Hyphenation is supported provided you insert the code where a word is to be hyphenated, just as in WordStar or WordPerfect.

LePrint can drive nearly any standard dot matrix printer in a variety of print modes. The better the quality, the more passes per line. On an FX-80 printer, for instance, letter quality is printed in six passes. As you might guess, this takes quite a while to complete a page.

Laser printers are also supported by LePrint, although this requires the use of a Tall Tree Systems 2 megabyte RAM card and a J-Laser interface, a hardware combination with a retail value of about $900.

The reason for all this optional equipment is that the output to the laser printer is sent graphically, and a full 8-1/2 by 11 sheet of paper requires a little over a megabyte of memory to hold all that data which must be dumped to the printer at high speed as the copy drum is painted by the laser.

The J-laser interface connects between the laser printer engine and the internal laser printer interface electronics. It isn't difficult to install, but you do have to take apart your $3000 (retail) printer to do it.

Throughput using LePrint is at best slow; how slow depends on the printer you are using and the material being typeset. Frequent font changes slow it down even more. It would be safe to say that a full page run on a laser printer, using an Equity 1 computer takes several minutes; in letter quality mode an FX-80 takes even longer.

This is not particularly surprising, and is common to current state of the art desktop publishing systems. Even Apple doesn't talk about how long their $6000 laser printer takes to output a page. (It is s-l-o-w, too.)

As a software package, LePrint runs nearly flawlessly. Our complaints with the software number only two. When LePrint hits a faulty command it noiselessly stops, and a screen message advises that it will be skipped as soon as a key is pressed. It would be nice to have an audible alert, since the program often runs for fairly long periods of time between printing operations.

Secondly, we'd like to be allowed to correct these faulty commands and see the text where the error occurred. Presently neither is allowed and it is sometimes a problem trying to find where in the file a particular problem occurred.

The LePrint manual, we feel, could use more usage examples, especially for beginners. It is one of those kind of manuals that has hidden gems scattered around. For example, we found that three periods in a row, starting with column zero was a "comment" to LePrint, and is not printed. We were sure this was a bug, but it isn't. Since it is in the book, it's a feature.

We have enjoyed using LePrint over the last month or so and can report complete success with this product when used with a Cannon LBP-200 laser printer. (We'd really rather talk about the secret Epson laser printer, but they won't even acknowledge it to us.)

And happily we can report that you'll find excellent, patient support from LeBaugh software, perhaps even from Bob Lebaugh himself. Normally, reviews of this nature include a print sample so you can see what the output looks like. Well, here it is. This entire issue of Epson World, from beginning to end (less the advertising copy and cover lettering) was typeset using LePrint after playing with it for about 5 hours. It is a remarkable package. ★

LeBaugh Software Corporation
PO Box 1029
Bellevue, Nebraska 68005
(800) 532-2844

MS-DOS Disk of The Month

Eleven great programs and information files from the MS-DOS public domain with complete de-archiving software!

MS-DOS users, you'll love our latest from the public domain. We have a collection of yummies that will keep you occupied for at least 30 days. Here's the run-down on the archived and compressed files waiting for your exploration. We've even included the archiving/de-archiving software to extract the files! How easy can it get?

AME86.ARC A software simulator. Let's you run CP/M programs under MS-DOS without additional hardware.

TPARK1.ARC A hard disk utility. Automatically parks your hard disk head in a safe place after a certain time limit and other goodies.

QARC.COM De-arc Utility. This utility unpacks archived files. Use it to get at the files packed on the disk. The latest version, just out in October, 1986.

EQWHIP.ARC Peripheral Check Program. Automatically reports peripherals installed in your computer.

EZFRM10.ARC Form Editor and Generator. Create your own personalized forms for business and home. Design and adjust forms on the screen and print them out by the gross.

KEY-FAKE.ARC Batch File Utility. Supplies keyboard input for programs run as a part of a batch file.

ZOOEX121.ARC An Archiving Utility. Runs twice the speed of the standard ARC utility, but uses its own file format for greater file compression. NOT COMPATIBLE with ARC files.

PROM.DOC Instructions for Changing Your System Prompt. Complete Details and examples.

ARC.EXE Archiving program. This is the newest and greatest, just released this October. Use it to "arc" your backup files to save on disk space.

WORMS.DOC A guide to destructive programs and how to avoid them.

DOS-BATS.DOC Lists all bug patches for MS- DOS 3.0 through 3.2. Don't run a buggy DOS! Complete patching instructions.

Back Issues Available!

In addition to the current disk of the month releases, we can still supply all the original Epson Connection gems, EC-1 through EC-18. Sorry, the "Best of '85" disks are *temporarily* not available, but we'll have them back next month. They're real classics.

Check your back issues of EC for disk contents, make your selection and order now. Just send us a note specifying which disks you want and include a check or credit card (MC or Visa) number. Same old price, $15 each. Watch for our complete catalog of public domain munchies next month!

CP/M - Valdocs Disk of The Month

An impossible deal! Tons of useful and practically free software, all waiting for your order.

If you thought you saw a bargain in last month's DOM, wait until you see this one. Fresh from the best of our public domain software engineers, these are programs available NOW, not *real soon now*. It will clearly take you a month to try each of these morsels; many will prove useful for years to come. Here's the list of what you'll get for only 15 American dollars:

NOTEPAD.LBR (CP/M-TPM) - Lets you place short handy note files on your disks.

PURSUIT.VAL - Detailed instructions on how to set up V+III mail to call and log onto remote bulletin boards (BBS) via PC-PURSUIT.

ZCMD-QX.LBR [CPM] - Super upgrade package converts CPM "B" into a Super-DOS! Includes ZCPR2 and ZCPR3 features like multiple commands, drive/user search paths, direct (TPM-like) user area commands, "wheel" security for RCP/M systems, and much more. A MUST HAVE for all CP/M hard disk users!

CUREDEMO.SYS [Valdocs] - Functional demo program of the latest IPG release "QX CUREALL" which they claim is capable of recovering ANY "blown" or "Error 16" Valdocs+ file as well as many more useful functions. A real "Swiss Army" utility for Valdocs users!

NULU151.LBR [Best in CP/M] - Latest version of the super library file utility including complete documentation.

V203UG.TQT - A listing from Rising Star of all user groups that have received Valdocs 2.03 for distribution.

LOTTO.COM [CPM] - A fun lottery (simulation) game.

VDE23.LBR [Best in CPM] - A very substantial public domain full screen editor, it has many word processor features.

QDIET.COM (CP/M-TPM) - Figures out your daily required caloric intake based on detailed date you supply about yourself and your activities, and how much you want to lose. Very informative (Cottage Cheese, anyone?)

QXRCPM03.LQT - The latest compiled listing (as of 10/1/96) of Epson bulletin boards nationwide.

YES! Do not tarry, send me copies of the October '86 EW Disk of the Month as indicated at $15 each post paid poste haste!

MS-DOS ____ CPM-Valdocs ____

Check Enclosed ____ MC ____ Visa ____

Card Number: ______________________

Signature: ______________________

Name: ______________________

Address: ______________________

City/State/Zip: ______________________

Epson World Disks of the Month contain public domain, freeware and shareware software. Your payment covers media, packaging, production overhead, postage and handling. Orders are shipped within 5 working days after receipt of your check or plastic.

Write, *Edit*, Publish!

A guide to desktop publishing in the 1980's

Edited By John Whiting

What's Going On Around Here?

By John Whiting

Welcome to the first edition of our desktop publishing department where we will deal largely with the how-to's of Everyman's Press. In this exploration we will see wonderful (and awful) examples of how others do it. And we'll consider the meaning of all this, of course...in plain words.

We'll also learn a few new words, just when you thought you had mastered the vocabulary of the computer! They include fun words, like "swipe." A swipe is a free source of illustration. If you just photo-copy a picture or a cartoon, you may have a legal problem. So you'll get some basics about another word, "copyright" as well.

If you have a source, like a very old book, selected pictures on a disk of swipes, or other public domain illustrations, then swipes are legal and safe to use. We'll not only tell you about doing it right, but doing it imaginatively. We'll tell you about good sources, good ways to enhance the illustrative value of your borrowed "art."

You won't learn much about Russian personal computers...because there are so few of them, but you'll get a look at high-tech, new-tech, easy-tech, inexpensive-tech---because in the fast-turning pages of this new world these are useful snippets.

You may not have a MacIntosh, but you'll pick up good ideas from how Mac Desktoppers do it. You may not be writing three magazine articles a month and a book on the side---but various authors who do work at that pace, using various PCs, will tell you how they do it. You'll learn about new machines for sending facsimile images; you don't need to buy one... just put a few quarters in the slot.

Color desk top publishing is coming. But we'll also talk about plain family newsletters, circulars to increase business in your uncle's store, ways to get more out of your printer, better buying tricks for your town's Office Store (my town has a fabulous one; find one for yourself!). Writing and publishing your own book,

What's Going On—Continued on page 13

Your Tricks?

We'd like to hear from you. Send us your tricks, ideas, inventions or stories so we can share them with others. You'll earn a free Disk of the Month of your choice and incredible glory to book every time one of yours is printed. Address your letters to Epson World, Box 369, New Boston, NH 03070.

Little Touches, Final Touches

Several little tricks are easy to learn, easy to use. They make the final product of a newsletter look just a little better. Some of these are already known to good secretaries, or to commercial artists, and if you have a good copy service that reproduces your newsletter or family history pamphlet, they'll show you how or even help with some of these touches.

- One way to avoid little black smudges on your reproduction copies is to use white correction fluid on your final copy.

- Another way is to use self-adhesive Correction Tape (one kind is made by Avery, the label people.) It comes in several widths and the directions are on the self-dispensing box.

- Use a ruler and/or T-square to check the accuracy of your completed layout.

- If you have a light-box available, put each page of your final newsletter, menu, booklet, or advertising flyer on it. It makes lining up the columns and art work easier and more accurate. You can make a lightbox, with a sheet of ground glass (or similar translucent plastic).

Touches—Continued on page 13

Touches—Continued from page 12

- Keep your eyes open when you get direct mail. You'll find envelopes and circulars often have useful type-set words: FREE OFFER, NEWS, ATTENTION!, SALE, HOLIDAY GREETINGS, HAPPY BIRTHDAY, SPECIAL and others. Clip these out and save them in a folder. You'll soon have several sizes and styles of type available. Unlike art work or creative writing, just plain words and type are not protected by copyright. If you looked behind the scenes you would find that small advertising agency art departments do this all the time...it saves money and time.

- Want an inexpensive two-color newsletter? Let's say you put out 115 copies each month, to club members or customers. Talk with your quick printer, and arrange to have 750 sheets printed up ahead of time with just the heading in red. Then he can use 115 each month, and print the newsletter itself in black. Speedy, fairly inexpensive.

- For a small extra sum your printer can provide colored stock. Talk with your printshop manager ahead of time; it may be worthwhile for him to order extra colors for you and other customers. Money tip: ask the price of colored paper ahead of time. Some suppliers over boost; others have specials.

- Keep your eyes open when you see other newsletters. Some use a two-column format. More work, but easy to read and a "professional look." Some use compressed type---more words to the page, but a little harder to read.

- As you assemble items for your newsletter, try to include long, medium and short items in the mix. It makes page makeup a great deal easier.

(Watching other newsletters will reveal that the best ones do exactly this.) Small ornaments (easy to "swipe" legally, from other printed matter) and items like geometric shapes, easily made on many computers, also help fit columns and pages together with a touch of class. ---*J.W.* ★

What's Going On—Continued from page 12

newsletters for a salesman's customers, and how to deal with the post office...all these are our topics.

Most of all, we'll talk about how to use "word processing" to greatly improve the quality and meaning of writing. Julius Caesar, a great and clear writer, had a dozen secretaries (that's what computer salesmen call power!) and a very great basic language for his communications. Today we have more power and an even better language. All that's necessary (if you have a computer) is to "just add thinking." ★

(Ed note. Epson World is pleased to introduce John Whiting, the author of Photography Is a Language, recently listed as one of the ten best books on photography. He has been a magazine editor and publisher, and in the last few years, a book publisher.

His latest book, On Deck, an illustrated manual of seamanship, which was almost entirely written on a Epson QX-10; two small manuscript corrections were made with a ball-point pen. He has lectured on writing at schools of journalism and served a term on the Accreditation Committee of the American Council on Education in Journalism.

He has also applied some plain thinking to computers, developing a rapid and simple method of alphabetizing the glossary in his latest book. One of his special interests is in getting the most out of printers. (At the present time he uses an Epson FX-80 with an NLQ board, "the right paper", and Valpaint's Hershey Fonts.) Currently he is writing a new book, "Creative Writing With a Computer", but is looking for a better title.)

YOU ALWAYS GET THE BEST FOR LESS FROM
GREEN TREE

PEACHTEXT 5000	$39
WORDSTAR HASCI	$69
SPELLSTAR	$50
MAILMERGE	$40
WORDSTAR, SPELLSTAR, & MAILMERGE — ALL 3 FOR	$135
PERSONAL PEARL DATA BASE	$59
MULTIPLAN BY MICROSOFT	$55
dBASE II HASCI	$89
VALDOCS+III	$250
TITAL BOARDS WITH MS-DOS 2.11 and CP/M B2.25 SOFTWARE — 192K $325 - 256K $350 - 512K	$525
256K AUXILIARY BOARD	$185
EPSON MODEM CARD & CABLE	$52
UNIVERSAL CARTRIDGE INKER	$43
STANDARD CARTRIDGE INKER	$35

ALL COLOR INKS AVAILABLE — CALL

Shipping $3.00 per hundred or part, APO, FPO, AK, HI, & PR add $6. Visa or Mastercard orders under $50 add $2.00. Orders under $30 add $3 serivce charge. Money orders, cashiers checks, and personal checks earn a 2% discount, but personal checks delay shippment for up to 14 days for clearance. New Jersey residents add 6% sales tax. We ship COD cash or certified check only for a $3.00 charge.

GREEN TREE
COMPUTER SUPPLIES

P.O. Box 249
11 Osage Road
Rockaway, N.J. 07866
(201) 627-9472
(800) 367-2897

EPSON

AUTHORIZED
SERVICE
FOR
ALL PRODUCTS
IN OR OUT OF WARRANTY
DEALER RATES AVAILABLE

LOGI TECH MOUSE	$99.00 + S&H
VALDOCS + III	$295.00

FAST TURN AROUND
EXTENDED WARRANTIES
COMPETITIVE PRICING

A-1 COMPUTERS INC.
830 CRESCENT ST.
BROCKTON, MA. 02402
(617) 583-2717

DATAFLEX

Professional DB Management
OS: CP/M, TPM, MS-DOS and others
$750 (CP/M) $995 (MS-DOS)
Data Access Corporation
8525 SW. 129th Terrace
Miami, FL 33156
(305) 238-0012

By William Scott England

DATAFLEX is one of the most flexible professional database management systems on the market today, offering transportability across a wide variety of operating systems including CP/M-80, MS-DOS, PC-DOS, CP/M-86, TurboDOS, VAX systems and more. It runs with equal ease on QX and Equity computers, and with a little juggling, also runs nicely on PX-8 portables equipped with at least one disk drive.

DATAFLEX uses a programming language similar to Pascal and is particularly easy to use. First, set up your database organization on the screen using your text editor, such as Wordstar or PeachText 5000. (Valdocs won't work unless the file is saved as a non-indexed file.) Next run AUTODEF, a part of DATAFLEX that automatically sets up field descriptions for the database file and generates the application program. Finish by compiling the application program.

The computer generated program can be modified before compilation, so that error checking and other bells and whistles can be added anytime. Once the database is defined, records can be easily modified with various function or pre-defined control keys.

Summarized reports are easy to generate by use of the QUERY program, which allows you to select the data to be processed (i.e. all customers which own more than one car), how you want it sorted (i.e. alphabetically by make of car), and where you want the data to be sent (i.e. screen, printer, disk.)

Advanced users will enjoy the DATAFLEX programming language. The language itself can't be described in detail here, but briefly, it is record and file oriented, the function keys are easily programmed, #include files are supported, and you can add your own commands to the language.

Installation on QX and Equity computers is simple, but because of size limitations, it is more complicated on the PX-8. By the time it is finished you'll have spent several hours making 4 disks. (Send a SASE to Epson World for PX-8 installation details. Keep in mind your PX-8 MUST be equipped with at least one disk drive before DATAFLEX can be used.)

DATAFLEX, being transportable across operating systems, is ideal for serious application development by users and programmers alike who use a variety of computer systems. Applications can be easily developed on a PX-8 in the field, then uploaded to a QX-10 where it runs under CP/M, TPM, or MS-DOS. These files can also be uploaded directly to a PC Clone or EQUITY computer using FILINK on the Geneva and a public domain program such as FILECOM.COM on the PC.★

Home Money Manager

Home Accounting System
OS: CP/M, TPM, MS-DOS
$59.95
Nickelodeon Software
PO Box 974
Tualatin, OR 97062
(503) 692-3732

By Lou Lanzillotti, CPA

Last year I reviewed Nickelodeon Software's Home Money Manager and was impressed with the ease of use, performance and excellent value. This month a *new, improved* version of HMM was released.

To recap last year's report, the HMM program is an intuitively operated home accounting program that uses many of the human interface design philosophies seen in Valdocs, but without the ponderous disk-grinding overhead, Gargantuan files and 840 page user manual.

HMM provides an electronic checkbook system that can handle up to 12 independent check registers. Data entry is simplified by up to 17 "standard payees" whose names are entered by menu selection. Your personal budgets can be organized to take advantage of HMM's 64 budget categories, making it easy, for example, to track various costs such as heating, electricity, telephones, child care, taxes, etc. Entries can easily be corrected or changed.

The new HMM is now complete. It does everything from check entry and register balancing after each transaction to printing of the checks. Nope, you don't need special checks for this either; although continuous form checks will speed things up. You can actually print them one at a time using your existing checks.

HMM is loaded with a variety of beautiful, useful, easy to access functions that neither get in your way nor slow you down. This is no mere "check writer". It is a complete single entry accounting system that shows at a glance where your entire money supply came from, is located and where it has gone. Built-in budgeting features (both monthly and annual) show how well you can live with your new year's resolutions. Comparative reports give you the news.

New features include automatic check numbering with date, a memo line to tag each check with personal notes and the ability to automatically print or display all outstanding checks.

The HMM system display is set up *exactly* like your check register. Data entry is easy because all your assigned accounts and payees are displayed at appropriate times. No need for a list scribbled on a scrap of paper. You can view or print each check, the entire check register or the current screen any time.

Another convenient feature is an automatic display/print mode for the last 40 check entries, about a normal month's worth of activity. Ever want to find something in your check book? HMM lets you search for payee, check number (or range of numbers) or date. The search is not instantaneous, but very quick.

There is no painful or extensive installation procedure needed to get HMM up and running. It comes already loaded with a sample setup in the several check registers and budgeting accounts, allowing you to see by example exactly how the system works. This makes it easy to experiment with the test data already included. After you know what you want, simply delete or modify this stuff and the system is ready to use.

Reports are the key to any accounting system. HMM can list checks written to any or all payees, checks within a range of dates, outstanding checks, range of numbers, deposits or checks by account category with totals and summary reports which give totals in all active accounts. Nickelodeon will soon be providing a simple utility program for DIF file conversion so custom reports can be made from your HMM files, potentially making HMM useful to small business operators.

HMM is a solid product with exceptional after sales support and competent over-the-phone assistance if needed. Over the last year Nickelodeon shipped registered owners several free, unsolicited genuine upgrades that were not bug fixes. I consider the new HMM as one of the most improved software packages of 1986.

The overall system is particularly helpful at the end of the tax year.

I've used HMM for my personal checkbook accounting for the last year in deference to all others on the CP/M and MS-DOS market, and as a CPA I get to see them all. HMM is a good product based only on its reliability, functionality and price, but it is even better now because of its availability in both CP/M and MS-DOS versions and total file compatibility. File conversion with RWCPM or Uniform takes only a couple of minutes. ★

NO EXPERIENCE REQUIRED

EASY-TO-USE SOFTWARE FOR EVERYONE

- **HOME MONEY MGR. (HMM)** — The easy-to-use checkbook and budgeting software. Handles check, credit, cash and ATC transactions. 12 check registers, 12 credit registers and 3,000+ transactions per data disk. Split transactions. Printed reports. If you make a mistake, correct it at any time with one of two editors. Plus HMM keeps a full year of financial records on a single disk. Epson World called HMM, *"unusually complete, simple to use, the best I've seen."* $59.95
- **HMM-II** — Increases the power of HMM to include flagging of tax deductible items, check printing, over 900 expense categories, up to 3000 transactions per register, reconcile multiple registers. $89.95
- **HOME INSURANCE** — Home inventory and record keeping system. Automatic adjustment for inflation, multiple searches, fast and flexible. $34.95
- **HOME LOAN** — Learn the real cost of a loan. Compare interest rates and terms. Includes amortization. $34.95
- **HMM PERSONAL ASSET MGR.** — Combines all of the above. $129.95
- If other software has been confusing and difficult to use, then try us. We've built our reputation on making quality, easy-to-use software.

HMM

NICKELODEON SOFTWARE

NICKELODEON SOFTWARE - P.O. Box 974, Tualatin, OR 97062 • (503) 692-3732
Please add $2.95 S&H per order. VISA, MC or check accepted.

The VALDOCS Chronicles

Lonny Brown, Editor

Est. 1986 *"We cared enough to wait for the very best"* Vol. 1, No. 2

Val & Out-Think

Nothing's more frustrating than glimpsing perfection and never tasting it. For a busy QX-writer, clear evidence that we don't live in heaven lies in the fact that tomorrow's mail is not likely to contain a release announcement of an outlining feature for VALDOCS.

Ah, wouldn't it be marvelous...finally, one self-contained program offering the freedom and speed of my favorite outliner, and the intelligence and beauty of VALDOCS' elegant editor; a software machine that would collapse or expand an outline, giving either a broad over-view or a detailed focus at the stroke of a key, and still offer VAL-Ed's versatility, graphic selection, mnemonics, dedicated keys, all-forgiving UNDO feature, and of course the eminently sensible INDEXER.

The dream of such perfection torments my soul. Rumors from IBM-Land of highly integrated project management software with full word processing features only aggravate my wound.

Outlining programs (also known as thought or idea-processors) differ from word processors in one major way: They can manipulate text and data dimensionally, rather than just sequentially. They recognize not only information, but a hierarchy of information: not only text, but textual relationships.

According to psychologists, most people think this way; compartmentally, associatively. The familiar form of the outline, with its categories and levels of information, is analogous to the way we process, store, and retrieve information inside our heads.

I don't know about you, but I tackle projects structurally and analytically first, with lists, and lists of lists, and then flesh out the rest of the information. Unfortunately VALDOCS doesn't lend itself well to this type of quick concept-manipulation. It almost does, with its Card File, INDEXER, view windows, versatile block moves, labeled place markers, and sophisticated look-for functions; but let's face it, the essence of early project development is fast brainstorming.

Without hard or ram disks, VALDOCS is too slow to act as an efficient idea processing machine. Enter OUT-THINK, the classic CP/M "Knowledge Processor" ($49 from Kamas), with its RAM-disk-swift shuffling of titles, its hide-and-seek features, and automatic Table of Contents generator. For me, it was love at first sight, reminiscent of my

Out-Think—Continued on page 18

Tips and Bugs

Here are a few notes that we've run across during the last month or so. We'd appreciate hearing about your choice discoveries as well.

✓ For less scrolling and a better overview of your text, choose the smallest font size and widen both margins completely. You can write a CPL or DEFKEY command to do this for you automatically. The high resolution QX screen makes high text density display practical.

✓ In the MISC menu, the ‹A›vailable Space window says "Press HELP for more information", but doing so only returns you to the Editor, even when the help file is in a drive. Does anyone know what "Directories Available..." means?

✓ The Editor gives you the option of deleting all text after the cursor, but not before. You can make a CPL/DEFKEY to do it with these keystrokes ("^" means CTRL):

^Margin Rel.
^W ^Margin Rel.
^B U D.

✓ Someone new at the Val-keyboard? Put the file HELP0.HLP on their System or Data disk and they'll never get stuck. VAL gets the help automatically from either drive.

✓ The ‹N›ote Page view window is slightly different than the other seven: You can jump to it directly with "CTRL N", and back to where you came from with another "CTRL N".

◆ PAINTER'S CORNER ◆

✓ Save lots of screen repainting time by merging pictures from PAINT to EDIT after finishing all your word processing.

✓ Make stamped text in PAINT bolder or taller by hitting an arrow key, then RETURN. Repeat until letters are sufficiently "thick".

✓ VALPAINT remembers your text entries, which is convenient when you wish to re-use them, but it slows down font changes considerably, as the letters are redesigned. When not reusing text, avoid the wait by clearing the text from memory: press the space bar and RETURN, before changing font styles or sizes.

✓ RX printers will reproduce all VAL type sizes except the second, for which it will give a slightly expanded version of size one. If you must have this particular size and style on your hard copy, you can take the text into PAINT and then back to the Editor again. The RX will then print the characters as they appear on-screen. Same for VAL's graphics fonts, from the GRPH SHIFT keyboards. You can also screen dump them to the printer (CTRL PRINT). ★

The Cover

Although everyone will feel a certain lack of security as RSI fades, we are fortunate because we've had time to develop our own independent support network, which began even before Epson discontinued the QX series of computers.

Epson made this possible when they formally began the "Official User Group" program. This gave grass roots support a tremendous boost since it "legitimatized" the user group program.

Next, there is a large network of BBS systems nation-wide, owned and operated by dedicated SYSOPs. These BBS's are now primary sources of information, news and support.

Finally, you have Epson World, the only *monthly* magazine in the US that is devoted exclusively to the needs of the Epson community. RSI may no longer be with us, but you'll still have plenty of support.

Wanted: QX-10 owner to run our Business. No experience necessary.

INTRODUCING A NEW MULTI-PLAYER GAME DESIGNED ESPECIALLY FOR THE QX-10 AND QX-16 COMPUTERS:

The Game of Busine$$™

Not just a game, but a true simulation of what it takes to start-up and run a new company. Each player builds a business using his own unique strategy. There's even a stock market where players can buy and sell the stock of any player's company, including their own!

SIMPLE, EASY TO UNDERSTAND MENUS WRITTEN IN PLAIN ENGLISH.

ON-LINE HELP, A CALCULATOR AND OTHER EXTRA SPECIAL FEATURES

$49.95
NO SHIPPING CHARGES
California residents add 6% sales tax ($3.25)

***TELEPRESS* Software Publishing**
7756 Isis Avenue
Los Angeles, California 90045
(213) 216-7375

Out-Think—Continued from page 16

original encounter with VAL herself.

Of course the rudimentary text leaf editor in OUT-THINK is so primitive it drives this VAL-vet up the wall, but when I realized that the two are actually file compatible, I breathed a sigh of relief. Now I think I can let RSI go in peace.

In the imperfect world of QX software, bringing an OUT-THINK outline into the VALDOCS editor is making the most of both. It's simple enough, (though not exactly instantaneous), involving storing the outline in ASCII, booting up VALDOCS, and retrieving the non-indexed file. The result is a regular text document with both titles and paragraphs in all the right places.

For large projects, file the outline in sections (eg: "chapters") and retrieve them into VALDOCS' eight separate view windows. Of course it's not complete bliss because this is a one-way track; you can't go back to outlining on the same file. The trick is knowing when in the growth of your document to make the transition, to optimize the system.

It all depends on when your writing becomes more text than titles. Switch too soon, and you'll miss OUT-THINK's ease of re-organizing the structure. Too late and you spend too much time in OUT-THINK's leaves, stumbling over its clumsy text editor.

Find a happy medium, and you'll be glad for what you have: two good, complimentary programs that help you produce one complete product. Not a dream come true, but a real solution for us survivor types.
---*LJB* ★

Mail Bag—Continued from page 30

**ATTENTION RSI V+ CUSTOMERS!
Get V+III for only $49.95. RSI has authorized us to sell V+ to registered owners of V+ who have not yet received their updates. As an extra bonus, we also will include the full manual with over 800 pages of documentation and a box of 10 blank diskettes.**

RSI has advised us that they are shipping updates with addenda. However, delivery dates have been uncertain. We at Val-Ware are advising our customers to take advantage of this offer.

This would tend to indicate that the demise of RSI had been planned, and that those of us who paid for but did not receive our V+III will have to pay $49.95 to obtain same. It also puts a market value on any claim which one might wish to file with the bankruptcy court, because there is a definable monetary value for the undelivered product.

I guess we now have VALDONE.

Tom Griffith
Las Angeles

Read more about RSI in USER REPORT. ★

QX-10/16 HARD DRIVE
COMPLETE 20 MEG SYSTEM
$1095.00
FULL ONE YEAR WARRANTY

COMFILER UPGRADE TO 20 MEG
$445.00

FULL SUPPORT OF CPM/TPM/MSDOS

Comfiler Cast Systems Upgraded
To Comfiler 1510 Compatible

PRO SYSTEMS, INC.
10711 W. 63RD
Shawnee, KS 66203
913-631-2190

EPSON SOFTWARE

MBACOUNT/$89.00: Small business double entry accounting. Up to 40 asset, 40 liabilities, 40 income, 80 expense & 20 capital accounts user assignable. Prints checks, P & L, balance sheet, chart of accounts, single account details, check ledger, etc. Generates a printable detail journal for audit trail.

A/R, A/P, PAYROLL INVENTORY: These programs are available as either stand alone software or MBACOUNT integrated modules. Stand alone **$79.00 ea.** Integrated **$50.00 ea.**

PROFBILL/$149.00: Time keeping and billing for all professional people who bill at various hourly rates. Handles 400 clients, 10 partners/employees. Prints billings, statements, aged billings, partner/employee hours, etc. May be used stand alone or integrated with MBACOUNT.

SBACOUNT/$79.00: Small business single entry system. Up to 99 income and 99 expense categories, user assignable. Prints checks, P & L (month, quarter, YTD), single account details, check ledger. Generates a printable income/expense journal for audit trail.

MAILLIST/$89.00: Mailing list/filing program. 10 fields per record and up to 900 records per file, files limited only by disk space. Sort/print all or partial list by most fields on 1, 2, or 3 across labels on 80 col. printer. Search, add to, delete or edit by most fields.

MBADATA/$89.00: A data/base-filing system usable without learning any special language or control codes. Up to 253 characters, 24 fields, 900 records per file. Sort, print, display any fields in any location in any order desired. Menu driven with step by step prompts!

STANFORM/$79.00: Need to fill out pre-printed forms? Then this program was made for you! Generates programs for printing data in the proper location on any pre-printed form that will fit into your printer. Each form need be generated only once as it is saved on disk.

$FINANCE/$79.00: Personal finance, prints checks, posts to as many as 120 user assignable expense categories, posts checks & deposits, reconciles multiple checking accounts, etc. Similar program for up to 9 charge cards. Extracts/prints listings for various categories.

TOUCHTYP/$49.00: Parallels high school/college level touchtyping course. Displays typos, final score. Timed speed drill mode. Electronic typewriter mode converts your printer to a one line memory electronic typewriter with settable margins, tabs, line spacing, etc.

MSBCHART/$49.00: Prints alphabetized list of all variables & line numbers referenced in any program written in basic cross referenced to the line number where used. A godsend when writing or modifying basic programs.

Place your order or request **FREE** catalog by mail or if using COD or credit card, telephone anytime of the night or day. Add $3.00 shipping & $3.00 additional for COD. Shipment will be no later than next working day by 1st class mail. Californians must add 6% tax to prices. (Visa, Mastercard & American Express accepted)

MAP **Micro-Art Programmers**
614 Alameda Padre, Serra, CA 93013
Phone: 805-962-0922

Some Nifty Pascal Routines for QX Computers

By Gary Johnson

Hello! Here are some utilities that may be of interest to programmers. People who bought Turbo Pascal and haven't used it yet might also enjoy these programs. They use the Z80 ports to make sound, manipulate the keyboard and check the status of the printer port.

Though some of you might consider this heavy sledding, don't worry. Just type them in and run them, then try your own programs using these utilities as subroutines. For those of you who have never tried Pascal before, try Turbo Pascal. It's easy to learn and use a second language. There is life after BASIC!

Many Pascal operations can be compared to those in BASIC. BASIC uses line numbers, low to next lowest; Pascal uses things inside BEGIN and END statements in top down fashion. While the start of a Basic program is at the top, the start of a Pascal program is at the bottom.

Notice the "END." instead of "END;". That's how the compiler knows where the beginning is located.

Another difference is that Pascal lets you make your own words instead of using GOSUB to a line number. Pascal FUNCTIONs work just like PROCEDUREs, except they also return a value. Unlike BASIC, Pascal makes you declare variables using the VAR statement before they can be used. INTEGER means the variable is like a BASIC INTEGER. A Pascal BYTE is just one byte (INTEGERs are 2 bytes) and is treated like an INTEGER. A REAL variable is like a Basic precision number, also known as a floating point number.

VAR declarations can be global (effective throughout the program) or local to a particular subroutine or function. I prefer to use local variables because no other routine using the same variable name can affect it s value. This means you can use the same variable names in different routines without fear of one routine destroying values in another.

Notice that when I write a Pascal program I use all capitals for words that are Pascal, First letters capital with a "_" dividing words for names that I create, and all lower case for variables.

Also, when typing PORTs be sure to use the correct $nn or you could cause problems. I don't mean to scare you. Just be careful. PORT[nn] := $00 is like an OUT nn,&H00 in Basic. BYTE := port[nn] is like a BYTE = INP(nn) in Basic. $00 and &H00 are hexadecimal numbers. Perhaps I'll talk about them next month.

Here are a couple quickie programs for you to play with. Study them to see how Pascal works and try them out if you can. Easy, good stuff to learn by.

QXSOUNDS.PAS is a program that makes random noises. It is only a demonstration program. The four PROCEDURES that are necessary to make the QX-10 sound work are:

Trigger_Sound : This turns the sound on. You shouldn't need to use this one.

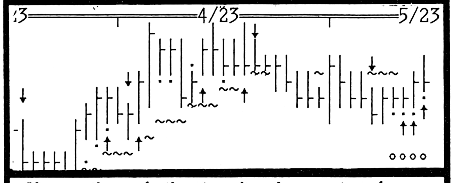
Kill_Sound : This turns off the sound.

Reset_Bell : Use this one when you are finished making noise. It turns the sound off and then sets the tone to the bell that you usually hear when you WRITE(CHR($07))

Sound(tone) : This is the one that you will use the most. It needs a parameter (tone) to function. The tone will continue to sound until you send a different tone. Use Reset_Bell or use Kill_Sound to turn it off. The variable sent this routine must be REAL.

Pascal—Continued on page 20

Compu/CHART 3tm



Yes, the furthest development of our Technical Analysis series is finally here! *(and just when PROFILES magazine said of Compu/CHART 2: "The best non-graphics technical program I have seen." -- Jim Spickard)*

NEW FEATURES:

★ "The Retriever"tm -- automatic data retrieval ★ New indicators based on volume, hi/lo/close calculations ★ Hi/lo/close moving averages bar chart (above) ★ %age comparisons for near, medium term and since recent rally (monitor your funds daily). ★ as well as... all the established features of Compu/CHART 2.

EPSON SPECIAL
(Introductory offer)

Until November 30, Epson owners can have this $299.95 value for a 20% saving. Compare that to comparable TA programs with similar features and you'll discover how cheap it is. But the only thing that's cheap about it is the price. Compu/CHART 3 is a conscientious effort to help you make money! **only $239.95**
(Now you see it, after Nov. 30, you don't)

Modem required for full implementation -- Subscription fees separate -- call or write to order or for more info -- M/C or Visa

NewTEK Industries
P.O. Box 46116W Los Angeles, CA 90046
(213) 874-6669

Pascal—Continued from page 19

I set the sound up to be continuous so programs could go do something else while the noise takes care of itself. Another reason is because sounds made very quickly have more variety and texture than a tone for a length of time. Just put a DELAY(time) inside Sound so you can Sound(tone, time); if that is a problem.

KEYBOARD.PAS is a program that shows how to control the keyboard. I left out the PROCEDURE that does the keyboard testing because it doesn't work like the QX-10 Technical Manual says it should. The keyboard test makes the LEDs turn on and off at the same time. CP/M, TP/M and VALDOCS do this when they first boot up.

The Speed_Keyboard_Up PROCEDURE is useful for game players. I usually run that one before playing JETSET.COM or PACMAN.COM. It is also useful if you like a fast cursor in the Turbo editor. If KEYBOARD.PAS looks like a lot to type, try typing the ones you want the most. Add the others later. What they do is shown by their name. They don't really do anything spectacular, but they can add that QX-10 touch to programs you write.

Use Bleed_Keypress to get rid of any keypresses that might have been made. I always use it before my programs ask the user to press keys. Watch out though, READ(KBD,CHAR) goes direct while READ(STRING) reads the text buffer. That's why I always try to use the (KBD) option when doing keyboard input. Stall_Keypress just waits for any key to be pressed. Even a ^C looks like any other key to the (KBD) option. The Basic parallels are CHAR = INKEY$ and INPUT STRING$.

After tweaking the keyboard, use Keyboard_Repeat_On and Slow_Keyboard_Down to set the keyboard like it is when you first turn the computer on.

RX80STAT.PAS is a program that looks at the printer status port. I use this procedure in programs that print things on the printer. If you've ever had a program stop dead it might have been caused by a printer that wasn't turned on. Using this procedure in your programs can avoid that situation.

The GOTOXY(1,20); just moves the cursor to the same place before RX80STAT.PAS prints the message. That keeps the message from scrolling off the screen.

You hackers probably should be told what's really going on here, so stand by for heavy duty:

The top four bits of PORT[$30] tell which memory bank is in use. You need this because PORT[$18] is where you set the memory bank in use. PORT[$18] is also where you trigger and untrigger the sound bit trigger. PORT[$00] is the speaker timer and PORT[$04] is the speaker frequency value. I disassembled WEIRD.COM by hand to figure this stuff out.

PORT[$10] is connected to the keyboard. The top three bits determine the command. The rest is the parameter. That SHL shifts the BYTE one bit to the left. BYTE ∗ 2 would do the same thing. That IF (loop IN []) is like saying IF ((loop =) OR (loop =) OR (loop =)) but is much smaller.

PORT[$15] is connected to the printer status port. The printer data port is a different port. The order of those status checks is important. ★

(Ed note: If you don't want to type the programs listed in this article, a disk with both the source and compiled, ready to run versions are available along with additional, highly useful QX-10/16 Pascal utility programs directly from the author for $15 postpaid. Send your check or money order to Gary Johnson, 1366 Marlin Avenue, Foster City, CA 94404.)

Program Listings

© Gary Johnson, 1986. All rights reserved. These programs may be freely used and copied by individuals; commercial use or sale is prohibited unless licensed by the author.

QXSOUNDS.PAS

```
PROCEDURE Trigger_Sound;
VAR
    b : BYTE;
BEGIN
        b := PORT[$30];
        b := (b AND $F0);
        b := (b  OR $04);
        PORT[$18] := b;
END;

PROCEDURE Kill_Sound;
VAR
    b : BYTE;
BEGIN
        b := PORT[$30];
        b := (b AND $F0);
        b := (b  OR $00);
        PORT[$18] := b;
END;

PROCEDURE Reset_Bell;
BEGIN
        Kill_Sound;
        PORT[$00] := $F0;
        PORT[$00] := $00;
        PORT[$04] := $00;
        PORT[$04] := $06;
END;

PROCEDURE Sound(f : REAL);
VAR
    fl : INTEGER;
BEGIN
        fl := 10 * ROUND(1.9968E5 / f);
        PORT[$04] := LO(fl);
        PORT[$04] := HI(fl);
        Trigger_Sound;
END;

PROCEDURE Make_Noise;
VAR
    r : REAL;
    ink : CHAR;
    nextsound : INTEGER;
BEGIN
        CLRSCR;
        WRITE ('Press any key to quit : ');
        r := 15.0;
        WHILE (KEYPRESSED = FALSE) DO
        BEGIN
                Sound(r);
                nextsound := RANDOM(75) + 15;
                DELAY(nextsound);
                r := r + (SQR(r) * (r / nextsound));
                IF (r < 15.0) THEN r := nextsound;
                IF (r > 1500.0) THEN r := nextsound;
        END;
        READ (KBD, ink);
END;

PROCEDURE Start_Here;
BEGIN
        Make_Noise;
        Reset_Bell;
END;

BEGIN
        Start_Here;
END.
```

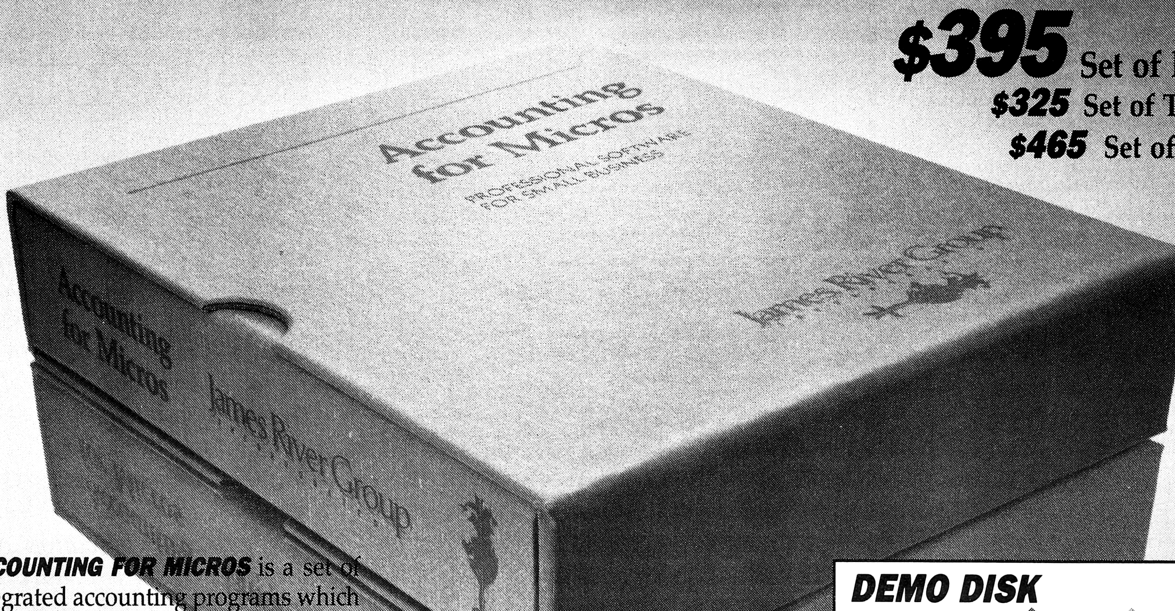
KEYBOARD.PAS

```
VAR
    ink : CHAR;
    loop : BYTE;

PROCEDURE Bleed_Keypress;
BEGIN
        WHILE (KEYPRESSED = TRUE) DO READ (KBD, ink);
END;

PROCEDURE Stall_Keypress;
BEGIN
        Bleed_Keypress;
        READ (KBD, ink);
END;

PROCEDURE Keyboard_Repeat_On;
BEGIN
        PORT[$10] := $A1;
END;

PROCEDURE Keyboard_Repeat_Off;
BEGIN
        PORT[$10] := $A0;
END;

PROCEDURE Speed_Keyboard_Up;
BEGIN
        PORT[$10] := $00;
        PORT[$10] := $20;
END;

PROCEDURE Slow_Keyboard_Down;
BEGIN
        PORT[$10] := $08;
        PORT[$10] := $24;
END;

PROCEDURE Turn_Keyboard_Light_On(led : BYTE);
BEGIN
        led := (led SHL 1) OR $41;
        PORT[$10] := led;
END;

PROCEDURE Turn_Keyboard_Light_Off(led : BYTE);
BEGIN
        led := (led SHL 1) OR $40;
        PORT[$10] := led;
END;
```

Pascal—Continued on page 22

ACCOUNTING FOR MICROS

$395 Set of Four
$325 Set of Three
$465 Set of Five



ACCOUNTING FOR MICROS is a set of integrated accounting programs which meet professional standards. They're fast and easy to use, with complete instructions. Our manual (shown above) also includes helpful information on bookkeeping and computers.

GENERAL LEDGER* *$125
Allows up to 1,000 accounts & 1,000 transactions/month. Retains mo/end balances for Last year, This Year and Forecast. Includes Cash Disbursements, Cash Receipts and General Journals. Reports include Balance Sheet, Income Statement, Annual Summaries and Journal Reports.

ACCOUNTS RECEIVABLE* *$125
Allows up to 2,500 customers and 1,000 invoices per month. Invoicing can access Inventory Module. Keeps customer names and addresses. Invoice prints on plain paper or any pre-printed form. Statements can be printed at any time.

INVENTORY* *$125
Allows up to 4,000 parts. Keeps 3 month history of unit sales as well as year to date. With AR, can be used as point of sale system (prints invoices, handles cash). Reports include Inventory Value and Stock Report, Internal and Customer Price List.

ACCOUNTS PAYABLE* *$125
Allows up to 500 vendors and 600 invoices/mo. Records invoices and handwritten checks. Prints computer checks on any pre-printed form. Keeps vendor names and addresses.

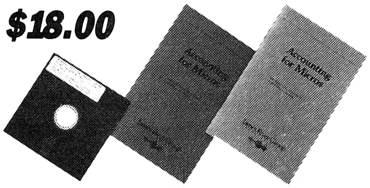
PAYROLL* *$125
Will handle up to 100 employees with six deductions per employee. Deductions may be determined as fixed dollar amounts or percentages, or referred to a table for automatic look-up. Tax tables are easily entered, or purchased separately.

SET OF FIVE* *$465
SET OF FOUR* *$395
SET OF THREE* *$325

RUN ON MOST CPM AND MSDOS

Apple CPM
Columbia
Compaq
Corona
Eagle (all)
Epson QX-10
IBM PC,XT,PC jr,AT
Kaypro (all)
Morrow (all)
Osborne (all)
Panasonic
Radio Shack CPM
Sanyo (all)
Tandy (all)
TeleVideo
Zenith 100 & 150
8″ CPM
Other compatibles

DEMO DISK
$18.00



Try all 5 programs above (GL, AR, AP, IN, PR). Order our DEMO DISK for $18.00 (includes shipping). Condensed versions of the programs give you the "feel" of data entry and access. Includes sample reports and instructions. Specify machine.

TRASHMAN (NEW)* *$145
The "Catch-All" program. Files any type of information for quick access. Name or subject oriented with 15 lines of notes per name. Use TMAN as a mailing list, filing system, notebook, etc. Can be used alone or with data from our other programs.
Try ***TRASHMAN (only) DEMO* *$16***

HOW TO ORDER: Please specify machine and disk format. You can pay by check, by VISA or MasterCard (we need your expiration date and card number), or by UPS COD (add $2.50 COD charge). Our price includes shipping. Minnesota residents, add 6% sales tax). We ship most orders the same day.
or ***ORDER BY PHONE: 612-339-2521***

James River Group
INCORPORATED

(612) 339-2521

125 North First Street
Minneapolis, MN 55401

PC-SIG Library

Keeps on growing...

New disks recently added to our library of user-supported and public domain software for the PC:

- ☐ #471 **Present V5.1** Make your own slide shows for business or home using your color monitor.
- ☐ #477 **Name Gram/Break Down/Fone Word** Do anagrams, find what words your phone number makes.
- ☐ #480 **PC-Outline** Outline and organize information, much like Thinktank.
- ☐ #481 **Still River Shell** Makes DOS easy to use.
- ☐ #483 **Mail Master** Keeps track of multiple lists, sorts and prints by city, state, zip and name.
- ☐ #485 **Icon Maker and FX-Matrix** Makes graphics characters like the MAC for your screen and you can paint them on your EPSON printer.
- ☐ #487 **Reflex Point** An action game modeled after the ROBOTECH cartoon series.
- ☐ #492 **Nutrient** Tracks your diet and its calorie/nutrient value.
- ☐ #494, 495, 496 **The World Digitized** Find over 100,000 different locations in the world and display them on screen.
- ☐ #498 **DOS-a-Matic** Load different programs and manipulate them with single keystrokes.
- ☐ #499 **PROCOMM** Communications with XMODEM, KERMIT, ASCII protocols, supports IBM-3101, DEC VT52/1000, ADM-3 and ANSI.
- ☐ #501 & 502 **Saleseye** Tracks prospects, leads and memos and prints letters with that information.
- ☐ #503 **Reliance Mailing List** Keeps track of multiple lists, sorts and prints by specific group– good for custom mailing.
- ☐ #506 **Bibliography of Business Ethics and Moral Values** The regularly updated master bibliography for those doing papers and research involving business ethics.
- ☐ #507 **PC-Sprint** Software and instruction on how to cheaply speed up your system 2–3 times.
- ☐ #508 & 509 **Statistics Tools** Factor experiments, "FORGET-IT" plots, simultaneous confidence intervals, randomization tests, expected mean squares.
- ☐ #510 **Visible PASCAL Compiler** Learn to program PASCAL and watch the internal functions of PASCAL as it runs.
- ☐ #511 **Turbo Sprites and Animation** Create, maintain and animate your own images in TURBO PASCAL.

RECENT DISK UPDATES

- ☐ # 5 **PC-File** Ver. 4
- ☐ # 78 **PC-Write** Ver. 2.6/1
- ☐ #124 **Extended Batch** Ver. 2.04a
- ☐ #199 **PC-Calc** Ver. 3
- ☐ #212, 334 **RBBS-PC** (2 disks) Ver. 3.7
- ☐ #388 **100 Letters** Ver. 1.1
- ☐ #393 **Checkbook** Ver. 2
- ☐ #395 **Home Inventory** Ver. 2
- ☐ #397 **Checkbook Program** Ver. 3.31
- ☐ #402 **IBM 370 Cross Assembler** Ver. 1.1
- ☐ #403 **Computer Tutor** Ver. 4.2
- ☐ #417 **ADA Prolog** Ver. 1.90
- ☐ #449 **Gags** Vers. 1.06
- ☐ #468 **CPA Ledger** Ver. 1.1
- ☐ 350-page directory (disks 1-300) $8.95
- ☐ Printed Supplement (disks 301-454) $3.95
- ☐ 1 yr. PC-SIG Membership ($35 foreign) ..... $20 Includes printed directory, supplement, bimonthly magazine

SPECIAL
Any 5 Disks *plus* 1-Year Membership $39

Disks are $6 each. Add $4 postage and handling ($10 foreign)– CA residents add state sales tax.

Total Enclosed $____ by ☐ Check ☐ VISA ☐ MC
Card No.____________
Exp. date________ Phone________
Name____________
Address____________
City________ State_____ Zip_______

PC-SIG

To order, call: **800-245-6717**
In CA: **800-222-2996**
For technical questions or local orders: **(408) 730-9291**
1030-D East Duane Avenue
Sunnyvale, CA 94086

Pascal—Continued from page 20

```
PROCEDURE Type_stuff;
BEGIN
        Bleed_Keypress;
        WRITE ('Type something (RETURN to quit) : ');
        REPEAT
                READ (KBD, ink);
                IF ((ink >= ' ') AND (ink <= '}')) THEN WRITE (ink);
        UNTIL (ink = CHR($0D));
END;

PROCEDURE Start_Here;
BEGIN
        CLRSCR;

        WRITE ('Keyboard repeat off : ');
        Keyboard_Repeat_Off;
        Type_Stuff;
        WRITELN ('DONE.');

        WRITE ('Keyboard repeat on : ');
        Keyboard_Repeat_On;
        Type_Stuff;
        WRITELN ('DONE.');

        WRITE ('Speed keyboard up : ');
        Speed_Keyboard_Up;
        Type_Stuff;
        WRITELN ('DONE.');

        WRITE ('Slow keyboard down : ');
        Slow_Keyboard_Down;
        Type_Stuff;
        WRITELN ('DONE.');

        WRITE ('Keyboard lights on : ');
        FOR loop := 0 TO 7 DO
        BEGIN
                IF (loop IN [2,3,5,6,7]) THEN
                BEGIN
                        WRITE ('Any key : ');
                        Stall_Keypress;
                        Turn_Keyboard_Light_On(loop);
                END;
        END;
        WRITELN ('DONE.');

        WRITE ('Keyboard lights off : ');
        FOR loop := 0 TO 7 DO
        BEGIN
                IF (loop IN [2,3,5,6,7]) THEN
                BEGIN
                        WRITE ('Any key : ');
                        Stall_Keypress;
                        Turn_Keyboard_Light_Off(loop);
                END;
        END;
        WRITELN ('DONE.');

        WRITELN ('Program DONE.');

END;

BEGIN
        Start_Here;
END.
```

RX80STAT.PAS

```
FUNCTION Check_Printer : BOOLEAN;
CONST
        fine = $00;
        powr = $40;
        redy = $20;
        papr = $10;
VAR
     pstat, temp, ps : BYTE;
BEGIN
        ps := PORT[$15];
        ps := (ps AND $70);
        pstat := fine;
        temp := (ps AND redy);
       IF (temp = redy) THEN pstat := redy;
       temp := (ps AND papr);
       IF (temp = papr) THEN pstat := papr;
       temp := (ps AND powr);
       IF (temp <> powr) THEN pstat := powr;
       IF (pstat = powr) THEN
       BEGIN
               WRITE ('The printer is turned off.          ');
       END;
       IF (pstat = redy) THEN
       BEGIN
               WRITE ('The printer is OFFLINE or not READY.');
       END;
       IF (pstat = papr) THEN
       BEGIN
               WRITE ('The printer is out of paper.        ');
       END;
       IF (pstat = fine) THEN
       BEGIN
               WRITE ('The printer is ready to go.         ');
       END;
       IF (pstat  = fine) THEN Check_Printer := TRUE;
       IF (pstat <> fine) THEN Check_Printer := FALSE;
END;

PROCEDURE Start_Here;
VAR
     ink : CHAR;
     readyprinter : BOOLEAN;
BEGIN
        CLRSCR;
        WRITE ('Press the space bar key to exit.');
        REPEAT
                GOTOXY(1,20);
                readyprinter := Check_Printer;
                IF (KEYPRESSED = TRUE) THEN
                BEGIN
                        READ (KBD, ink);
                        IF (ink = ' ') THEN readyprinter := TRUE;
                END;
        UNTIL (readyprinter = TRUE);
END;

BEGIN
        Start_Here;
END.
```

User Report...

The following is some of the best we've found on bulletin boards across the country this month. Unless of particular importance to the message, we have deleted names to protect the privacy of the individuals involved.

The main topic discussed this month has been the demise of RSI and its implication on users and customers. Surprisingly, most of what we found was not terribly sympathetic towards RSI and their difficulties. Topics collected from bulletin boards have been lightly edited and organized when appropriate so you can follow the flow of message sequences, giving some of the flavor of BBS telecommunications.

This column is written by everyone, for everyone. Enjoy.

==

DATE: 10/05/86
SUBJ: SD WITH VAL+III

Thanks for your help. I managed to initialize the system correctly and it showed 2Meg of space on the SD when I rebooted. However, when I went to copy over all the Valdocs+III application modules to the SD, I was only able to copy the mabout 500K of modules. When I exceeded 500k K, I got a message that my disk M directory was full even though nearly 1500K of space was remaining. My computer hung-up at that point, and the only way I could get it operating again was to unplug the battery backup for the SD and let it discharge overnight. Any suggestions for what to do now? Thanks. George

==

DATE: 10/05/86
SUBJ: SD WITH VAL+III

George, you must run SETSEMI, tell it that you have 4 groups of 512K, and to Hash. Then go to Setup and establish your drive/ user arrangements. The reason your SemiDisk is only loading 512K and showing about 1500K free is because you are only telling it that you have 512K IF you do not run SETSEMI. If the problem continues, suggest you DL QTEST.LBR and run the clearing program therein. Miles.

DATE: 10/09/86
SUBJ: SemiDisks/V+III

There appears to be an inordinate amount of problems arising concerning preparation of the 2M SemiDisk (SD) for V+III. The TPM-III operating system supporting V+III has been changed considerably from previous versions. Many of the routines previously built-in have been removed and pro- vided as stand alone programs. This is true both for the SD and Hard Drives. The following procedure has been found to work:

1. Backup data on the SD using the current system.

2. Clear off the SD using QTEST. Run it on CP/M to ensure that no Valdocs items are placed back on the SD inadvertently. (QTEST.LBR is located on B0›, this board).

3. Clear out the CMOS ROM, using procedures set forth in CMOSRSET.TXT on drive A4›. When done correctly, an A: will appear.

4. At A:, place a copy of V+III Utility Disk in the Left floppy drive. Press RESET to warm boot.

5. When A0› appears, insert a copy of the LOAD Disk in the Left drive, MOVE the Utility Disk to the Right drive. At A0›, type B0:SETSEMI. SETSEMI will run from the B0› drive on the A0› drive. Follow its menus. The 2M SD consists of 4 512K packets, select "HASH." SETSEMI will write a table to the A0› drive (LOAD Disk) identifying the fact that the SD is installed. When finished, it will advise to push RESET. DO NOT PUSH RESET YET.

6. AT THIS POINT, REMOVE THE UTILITY DISK FROM THE RIGHT DRIVE, INSERT A FORMATTED DATA DISK.

7. NOW, push RESET.

8. The computer will load V+III and go to SETUP. In the Valdocs option, be sure to tell the system that M0› is the system drive. The data drive can be any other drive EXCEPT M0›. If the procedures were followed correctly, these setting will be accepted by V+III. Continue SETUP. Be sure that the clock is correct, especially the date.

9. Proceed normally with the installation, press CPYDISK to load the system files to M0› using the ‹N›on-indexed option, ‹M›ore than one file. Remember that V+III exceeds 2M, so you will have to make a decision as to which files to load onto the SD. Many of the Utility Disk files are not required for normal use and may be left off. Same applies to those printer fonts which do not apply to the printer being used.

Thereafter, the computer will boot into the SD with the modified LOAD disk installed in the Left Drive. It is a good idea to make a "boot disk" by copying the LOAD Disk used in this exercise to another disk, then deleting from it any files which are not required to boot the computer. The ONLY files required to boot, IF you have loaded the entire LOAD Disk as modified in this exercise to the SD M0›, are the operating system (on tracks 0 and 1) and the SD table which was written to it.

Therefore, the remaining space on that disk can be avail- able for other useage such as a VMAIL setup, etc. The only time that the computer looks to the boot disk or Left Drive will be upon booting and closing down. Miles.

DATE: 10/11/86
SUBJ: RSI BANKRUPTCY!!!

RSI has filed for Chapter 11 bankruptcy. If you have not recieved something that you ordered from them, it's a good possibility that you never will. For more info on this matter and what can be done read the file EPSWORLD.TZT on drive A2:. These are messages from the Epson World BBS and one gives the procedure for putting in a claim to try to get what RSI owes to you.

DATE: 09/11/86
SUBJ: GENEVA et al

Andrea, I have the GENEVA with Multi-function Unit and Disk Drive. I am also Pres. of the Los Angeles Epson User Group. The UG is fundamentally for the QX-10/16 series computers and Epson printers. We do not have a support group for the PX-8.

I have several PX-8 public domain programs on my BBS, which you may call on (213)398-2395. I will be happy to answer any questions that I can if you post a message. DAK, in the SF Valley is selling PX-8s and related peripherals. Perhaps they also have a ribbons and thermal paper for the printer.

I don't have their number, but you can get it from information or a valley phone directory. Ask for their new catalog. You may order by phone any item in their catalog. Very reputable company.

Good luck with your fine little machine. al

DATE: 09/13/86
SUBJ: EPSON P-80X PRINTER

Andrea, I also have a PX-8 computer as a companion to my QX-10. I use the PX-8 when I am on the road away mfom my home here in Los Angeles. I was on an extended trip up in the San Francisco area recently and bought a small Brother dot matrix printer, Model #M-1109 from a store over in Berkely called Whole Earth. They have a computer department.

The salesman I talked to seemed to be quite knowledgeable about the PX-8. The reason I bought the Brother printer, by the way, was because it uses regular paper. The premium I pay for that advantage is the Brother is twice the size of the P-80X, though still small compared to the average printer, and it needs 110v AC power to run it.

Not a problem for me because though I use the computer out and about, I don't need to print until I get back to my hotel. I might be able to answer questions you might have about the machine. I also know that several others who frequent StarTech own PX-8's. Bill

---

DATE: 09/12/86
SUBJ: EPSON P-80X PRINTER

Bob Hermann runs a PX-8 only BBS called PX-DOCK at 313 538-6968. If anyone can help you, he can. Plus he has a bunch of PX-8 files on line or will send them to you on tape for a modest charge. He also burns custom ROMs, etc. AND, there are a bunch of other PX-8 owners on there. Tell him I sent you, and be sure to say hello to me when you get there.

DATE: 09/13/86
SUBJ: GENEVA et al

We have a special section for PX-8 owners, including public domain software on Philadelphia EpsonNet: (215) 76-EPSON. 300/1200 baud; 24 hours.

DATE: 09/14/86
SUBJ: Color Printing

Any Info on what color printers work with V+III and the QX-10 beside the JX-80 ? Also any experience with the JX-80 how does the color look?, How is it as a regular printer? Is it really very slow in the graphics mode. Are their any newer better model that Epson has put out and lastly anyone with comments re. the Okimate 20 working with our software etc. Thanks for reading the message and I would be thankfull for the help here or on the phone 213 498 1372 Don Lewis.

DATE: 09/15/86
SUBJ: Color Printing

Hiya, DON: I have two JX-80's. Use them, primarily, for normal black type printing (uses the regular ribbon when in standard mode - keep the color ribbon in a sealed plastic bag). The JX works just fine as a regular printer. As for the color: Well - I guess, for an inexpensive printer, the color is pretty good. But don't expect crisp, true color printing such as in an ink-jet. It's color - but considerably weaker than what you see on screen. If you want better color there are ink-jet printers, I believe. But someone else will have to inform you on those...

DATE: 09/15/86
SUBJ: COLOR PRINTERS

Don, The JX-80 prints fine from Valpaint but it is a bit weak so we include the ability to print 'Correspondense Quality' from Valpaint. It is much better in this mode. We also have the ability to print from the Diablo Ink Jet color printer which must be done from the PICTURE.SYS program.

The Diablo is quite expensive and does =not= print text from Valdocs but if you want exceptional color pictures then this is the printer you need. The Diablo takes 14 minutes to print a standard size picture and 7 minutes to print a half size but the wait is worth the results. Jim

---

DATE: 09/18/86
SUBJ: Semi-disk

Can you hook up more than 1 semidisk to the battery backup power supply electricity thing?

DATE: 09/21/86
SUBJ: Semi-disk

If the supply is regulated, I assume that it would be possible to hook them together. Th)iere are two problems, however. There may not be enough current capacity to power both on stand-by and the second problem that I am sure would exist is that you would have to HALVE your backup time should a power failure occur. I do agree with your suggestion to call Semi-Disk but perhaps the best method is still

User Report—Continued on page 24

User Report—Continued from page 23

the one BBU for each SD. The cable alteration should be simple in itself.

==

DATE: 09/22/86
SUBJ: Semi-disk

I don't even use the SEMIDISK. I was asked about it though. Naturally my love for comunicating computer information made me ask here.

==

DATE: 10/07/86
SUBJ: RECIPE

I understand that someone has posted the recipe for Mrs. Field's cookies on a BBS that requires a 1200 baud modem. Has anyone gotten the recipe? Would appreciate a copy. Thanks, Andrea

==

DATE: 10/08/86
SUBJ: RECIPE

If you get Mrs. Field's cookie recipe, would you mind passing it on, please, please? I am a cookie freak. Munch, munch. al

==

DATE: 10/09/86
SUBJ: Recipe

I found out that Mrs. Field's cookie recipe is on a board called Best of Both, phone number: 325-3237. It requires a 1200 baud modem (which I don't have), and you need to be recom- mended to the board. Also, he requires that you upload something in order to have the privilege of downloading. Good luck!!! If you get the recipe, I will bake you some!! MUNCH...MUNCH...MUNCH

==

DATE: 09/04/86
SUBJ: DEFKEY/CPL Fix

DEFKEY in V2,V2.03,V+, V+II and its replacement in V+III, CPL.SYS, can get you into lots of trouble IF you redefine the HASCI keys (STOP, HELP,COPYDISK, UNDO, and the ARROW keys) FROM their normal Valdocs definitions to something else.

When Valdocs goes looking for the usual definition, you can't believe how screwed up things get when it can't find what it expects!!

So for your own piece of mind, PLEASE REDEFINE SUCH KEYS, IF AT ALL, to use them with the SHIFT key to ensure that the original Valdocs functions are NOT disturbed. This also applies to using/transmitting these keys in VMAIL. In other words, send such keys while in VMAIL (if you need to send them) by pressing SHIFT/UNDO, etc. Miles

==

DATE: 09/08/17
SUBJ: Offline Msg Drafting

In response to requests for help in creating messages off- line for transmission later to an RBBS/QBBS using VMAIL in V2 or higher, here is the procedure.

First, set up a format in Editor--CTL P ‹L›eft margin 0.00, ‹R›ight margin 5.37 for 4.2 RBBS's, 6.06 for QBBS's. STORE.

Next, enter text. Use center, right justify if you like. Most RBBS's limit to 24 line messages, QBBS's to 20. Use line spaces, if you wish, by beginning each with a dash or period. For QBBS uploads, end text with /EX on a blank line. Store--CTL Q, ‹S›tore ‹T›ext only ASCII, best way--hard Car- riage Returns required for line feeds.

DO NOT USE ANY semi-colons IN DRAFTING TEXT--RESERVED MES- SAGE FILE HANDLING! LIKEWISE, NO empty spaces--RESERVED FOR END OF MESSAGE TEXT!

In VMail, call QBBS--toggle "W" (line wrap OFF). Then for either QBBS and RBBS, enter message heading manually. Transmit text by pressing RETRIEVE, ‹N›on-indexed file (as filed). Message will transmit line by line. When finished, Edit, if needed, Save. If too garbled, increase auto send delay, se- cond level address card, to 1 and 3 initially. Miles.

==

DATE: 09/20/17
SUBJ: HARD DISKS?????

The documentation for VIII+ says that it will support just about any hard drive. The problem here, of course, is connecting the drive to the computer--most mfg's don't make a drove controller card that goes in the QX10. I would like very much to add a 10/10MB Bernoulli drive to my machine. Does anyone know how this could be done?

Also, I would appreciate any other info on other drives that people have used successfully. I know the P.R.O is top rated, but I really appreciate the disk interchangeability of the Bernoulli, and I use a Bernoulli at work, so would love to be able to do that! Your help is appreciated! Larry

==

DATE: 09/20/17
SUBJ: HARD DISKS?????

Larry, probably not possible, but to verify, call Les Poston at P.R.O. hard drives in Shawnee, KN. His number is in any ad for those HD's. He could sell you a card which would fit the QX-10. The problem is whether or not the Bernoulli can be operated by the 10's disk controller or if the card can be made to carry the necessary interface. Miles.

==

DATE: 09/21/17
SUBJ: Internal Hard Disk for QX

You are correct of course. When I first called express I spoke to someone who didn't know what theywere talking about. I have since spoken to a technical person.

What is the best price (and from whom) for the system you recommend for the QX-10?

==

DATE: 09/21/17
SUBJ: Internal Hard Disk for QX

Marvin, sorry it was that way. In my opinion, the PRO 520A 20M hard drive is hard to beat. On Msg Area 5, Karl Helft has an ad for that product. I haven't seen anyone who beats his prices. Miles.

==

DATE: 09/21/17
SUBJ: Internal Hard Disk for QX

Marvin, the PRO20 is only about $200 more than the ComFile 10M, if it can be found new. Used, that latter item runs about $700. If one wants an HD for the 10, your choices are very limited--no 20M is cheaper while it makes no sense to buy a 10M unit when the 20M can be bought for $1095. The price of the PRO 20 may even have come down a bit. It's sort of the same argument for buying a 2M SemiDisk for $900 or so when a 20M HD can be purchased for a few hundred more AND GETS ONE 18 MORE MEGS STORAGE! To me it's no contest. Miles

==

DATE: 10/07/86
SUBJ: Comments on RSI

When you said "management ineptitude" you really said a mouthful. I probably should reserve my feelings on this, but I can't help it! When I hear (from MANY sources) of $1,000 phones, original masterpieces on the walls, solid rosewood desks, and much much more, these excesses make me MAD! What a waste of a wonderful concept and software with potential that can still be developed but has lost so much momentum. I have been told by many that just arriving at RSI was an exhillarating experience, passing Ferraris and Lamborginis (sp) while looking for a parking spot.

I usually try not to judge people on such things. However, I think you are correct in countering Walker's message on the point of management. Had RSI spent more on productive programming for Epson instead of lavish offices and fancy wheels for the execs, Valdocs 2 would not have been such a disaster. Wozniak ended up a multi-millionaire, but only after Apple sold millions of his computers which were developed in a garage with parts bought by selling his car (or so the story goes). Mike

==

DATE: 10/07/86
SUBJ: Enthusiasm

Walker, I quickly wanted to mention that I agree with some of your thoughts about Valdocs and the QX-10. I have been very supportive of RSI (and bought everything they ever released). I find your enthusiasm for Valdocs very encouraging for third party vendors like Manna and Sunset Systems.

However, I hope you will not be disappointed if, like Mike, I don't share your willingness to support RSI and Valware, at least in terms of ordering or sending any funds in the future. It may be a moot point; some say RSI is gone and others (like J.J) say it's business as usual, just that they filed for protection from the wolves (creditors).

Unfortunately, some of those creditors are USERS, like you and me. I heard today about a gentleman in New England who bought and paid for (by check) a Semidisk two weeks before I ordered mine. He never got it. Others have bought Pro-Systems hard disks and never got them. And Pro Systems have drop shipped drives and never got paid, either!

Evidently, some of us should consider ourselves lucky. It seems that the dark side of a once shining Star is now being seen. I will formulate my thoughts and return with what I hope will be a positive outlook. David

==

DATE: 10/07/86
SUBJ: the date

In that last message, I failed to mention that I ordered my Semidisk last December. It would seem that the unfortunate person is out his $800.00. David

DATE: 10/08/86
SUBJ: RSI REPLY

Well Mike, what you've said sounds like what I've been saying for quite a while. One VERY VERY simple question? WHERE did all that money they collect go? Huh! Well you said a mouthful and I don't what to take from you anything. You are right and maybe other people will now take court action.

What would you do if robbers came into your house and take your credit cards, money and leave nothing? I would write the Attorney General and ask for a complete audit of funds. Well enought is enought, the courts have the case now and only if you the people who go ripped - - talks to them, will they know whats going on. David

---

DATE: 10/08/86
SUBJ: Comments on RSI

You're right David. I was involved in selling the twin engine airplane, also the Lambrigadi [I gave them a way out on the lemon law to return that turkey] They opened an office in swissland and many 'I accent many' trips back and forth via first class airlines.

Did you know they paid for some of the programmers (who were the same religion as certain people) to go on retreats to Florida that cost in the 1000's. This would be the same as GMC paying my way to Catholic Retreat for 4 weeks in Las Vegas. All the goodies you said were in the Offices.

I believe IRS is strongly interested in where these goodies went? Of course all the above is alleged rumors, but I did trip over the airplane, that was a pretty solid alleged rumor. So don't feel bad about what you said. Dennis

---

DATE: 10/08/86
SUBJ: Comments on RSI

I wouldn't make too much out of the retreat thing, Dennis. Many private businesses send their employees to such things to make them "better people". I don't personally like it, nor do I agree with it, but it is their business. Of course, that along with the lavish offcies is more holes where the money from Epson went instead of programming.

It is also my and several other's personal feeling that there were a few programmers who did *absolutely nothing* productive while working for RSI at their "electronic cottage". There is something wrong when one person, like Greg, can write the entire V+ editor and spellchecker inside of a few months while it supposedly took another chap over a year to generate SYSINIT.CHN.

The only reason why I mention all this is to get the word out to everyone that RSI is bankrupt because of their ineptitude, not the validity of Valdocs in the marketplace. Like Mike, I sure hope David R.'s people can rescue a good concept from a lousy death due to all this utter nonsense.

Switzerland indeed. It won't have the widespread penetration of 123 or M-soft Word, but I see no reason that Valdocs cannot survive in a specialty market. David

---

DATE: 10/08/86
SUBJ: RUMORS?!

I too do not like rumors, so lets look at the facts:

1. RISING STAR INDUSTRIES IS IN CHAPTER 11 BANKRUPTCY. This means that they have time to attempt to reorganize and develop a plan to pay their debts. If they are to come out of bankruptcy their CREDITORS will have to agree to the plan.

Since they have scant assets, and little or no cash coming in the door, it may be tough to get those who are owed money to agree to the plan. They are in no position to bring any new products to market (they can't ship the ones they now have), so unless someone buys them out this Chapter 11 may well turn into a 7.

2. They have NOT been shipping enough copies of Valdocs+III in the last few months to amount to anything significant. Thousands of people are owed this product, and the costs to ship it and the manuals that are due would be enormous. WHERE WOULD THE MONEY TO PREPARE AND SHIP THIS MANY COPIES COME FROM?

3. Many users who ordered products from RSI and paid for them, have not received them. This has been going on for some time. What did RSI do with this money from customers that was meant for the purchase of hardware or software?

4. The U.S. Post Office has had many complaints from people that feel RSI has ot treated them fairly. If you wish to confirm

User Report—Continued on page 32

WANT **PERFORMANCE**
FOR **EPSON QX-10 & QX-16?**

DO IT NOW
With a FMI Hardrive

$$$ NEW LOWER PRICES $$$

- Low cost solution
- One year warranty
- Supports CP/M, VALDOCS, MS-DOS operating systems
- Optional QXTAPE backup takes less than 5 minutes to backup your entire Hardrive
- Optional removeable drive can be used for data or to backup your entire Hardrive

Call now for information & pricing

We carry a complete line of Hardrives for Epson computers.

Forrest Micro Inc.
255 Forrest Street
Metuchen, New Jersey 08840
201-463-7899
Telex 286788 FMI UR

MS-DOS EXPRESS

Batch Files in MS-DOS-land

By Jim Hansen

Last month we went into considerable detail about the MS-DOS directory structure and how it is used, and along the way a batch file that would create a new directory and automatically make it the default was introduced.

Batch files are the MS-DOS equivalent of CP/M's SUBMIT utility, and as suspected, they are more powerful, more easily created and edited, and generally handier to use.

You should read all about BATCH FILE commands in the MS-DOS manual because there is a lot more to it than this simple tutorial suggests, yet what I'll present will get you through most of the time. Hold on to your hat, here we go.

Batch files are simple ASCII (no control codes except carriage returns) text files that have been stored with the file extension ".BAT". As far as we are concerned here, a batch file is simply a list of DOS-type commands that will do whatever we want. This saves us from having to type some long and dreadfully boring sequence every time we want to do some dreadfully boring task.

For example, say that you would like to be able to run 123 or VolksWriter 3 by simply typing "123" or "VW3". Since these programs are probably kept in separate directories, you would normally have to manually type a sequence that goes like this:

```
A:\›C:
C:\›CD LOTUS
C:\LOTUS›123
```

What we just did was go from our A: disk drive to the C: drive where 123 lives on the hard disk. Then we switched to the LOTUS directory, and finally started up 123. Ho hum and Boring.

Since the Computer has brains, why not let it do all this hard work? It can if we tell it how.

We'll create a batch file that has this same set of commands, name it something handy like 123.BAT, and the computer can execute it any time we type the magic command string "123".

Here's how to do it. First, make a new directory of the root directory called BATCH. This will be where you'll save all your BATCH programs so they aren't scattered all over your system.

Next, using EDLIN or hopefully some easier to use text editor (I use the $50 Norton Editor which we'll talk about sometime) make a file that reads:

```
REM Batch File to Start 123
ECHO OFF
C:
CD \LOTUS
123
```

Simple, yes? Save this file in your newly created BATCH directory. You can now test it by entering, at your system prompt and while you're in the BATCH directory, the command "123" followed by a return. Assuming that you have 123 in a directory named LOTUS, you should find it comes to life automatically. Voila, as some ethnic group says.

Here's what it does. First, the ECHO OFF command keeps the screen from being updated as the batch file is run. This is a matter of personal preference, and you can leave it out if you like. Next, the C: command makes the C: drive the default. Be sure to change this to A: or whereever you have saved the LOTUS directory. The CD command makes the LOTUS directory the default, and finally, 123 runs the 123 program in the LOTUS directory.

The only problem we have right now, then, is that you have to be in the BATCH directory to run the 123 batch program. This non-trivial annoyance can be easily overcome by use of the PATH command, another magic MS-DOS feature.

PATH is used to cause MS-DOS to look for programs outside the current directory should they not be found. If you have followed the suggested file structure organization from last month, we now have two directories where we might keep often used files.

The first is of course the DOS directory. Remember this one? This is where we dump all those random utilities from your MS-DOS master disk. Things like COPY, COMP, etc. Even though these are often used, it isn't often that we'd want to actually be in the DOS directory, so it would be handy to have the system automatically check here in case it couldn't find some program we'd like to have run.

And of course we'd like to have DOS automatically check our BATCH directory. This way we can be anywhere, say, in the LOTUS directory after doing a little 123-ing, and go directly to our word processor. (This month it's Volkswriter 3.)

So how do we do this? Simple just type the following command and it is all done:

```
PATH c:\dos;c:\batch;
```

Once you've entered this as a system command, DOS will first check the default directory for the program it is after as always, but should it not find it there, it then checks the DOS directory, and finally the BATCH directory. That's all there is to it. DOS will run the program matching the name you supplied from the first directory it finds it in, using this search order.

Of course it would be possible to include the LOTUS directory in PATH, thereby avoiding the 123.BAT file entirely, but there is a limit to how many directories can be searched. And sooner or later you'll run out of PATH room.

Naturally, we don't want to be bothered with having to type even the PATH command, so we'll put that in a special batch file that the system automatically runs every time it comes up. This batch file must be named AUTOEXEC.BAT, and it must be saved in the root directory of the C: drive if you have a hard drive or on your boot disk otherwise. This file is normally considered optional, and you may not have one unless you've made it up or some program on your system provided it.

The AUTOEXEC.BAT file is an amazingly powerful tool since it can do a whole bunch of stuff automatically whenever your system is turned on, leaving it configured the way you want it. The only secret is that it *has to be kept on your boot disk in the root directory*.

OK, so between last month and this one we have two things that should be put in the AUTOEXEC.BAT file, right? First we would like our PROMPT command configuration to be run every time the system comes up. This way we can always tell what directory we're in, right from the beginning. And of course, we want the PATH command in there so the system will automatically search the directories we just mentioned.

Express—Continued on page 33

THE BETTER WAY TO MANAGE YOUR MONEY

Checks & Balances™

- Fast, easy to use for home or small business
- Single-entry format, but with more detailed reports than most double-entry systems
- Full check-writing capability
- Reconcile your bank statement in minutes
- Keep a full year's records at a time—no need to close out at the end of the month
- Net worth, profit/loss, income/expense
- Any transaction may be sub-divided into multiple categories
- Rolodex function addresses checks, mailing labels, envelopes and rolodex cards

$74.95 • NOT COPY PROTECTED

For CP/M, MS-DOS or PC-DOS. Requires 2 disk drives or hard disk, CP/M needs 64K memory, MS-DOS 256K

Check, Visa, MC accepted. $3 P&H per order. COD $4 extra. Outside USA $10 per order, no COD. Computers shipped UPS surface rate. 30-day guarantee.

IBM-XT COMPATIBLE COMPUTERS WITH PC-DOS AND OTHER SOFTWARE

256K, 2 half-height floppies, keyboard, color graphics card with monochrome monitor, serial, parallel, game ports. **$989.00**

640K, 20 meg hard disk, 2 floppies, keyboard, RGB color monitor, serial, parallel, game ports, 5151 keyboard **$1995.00**

Bowling League Secretary™

Computes averages and handicaps. Maintains high, scratch and HDCP games, team standings. Even tells you what lane to bowl on! Complete printed reports. Enter the scores, it does the rest! For CP/M, MS-DOS or PC-DOS with 2 drives or hard disk. **$89.95**

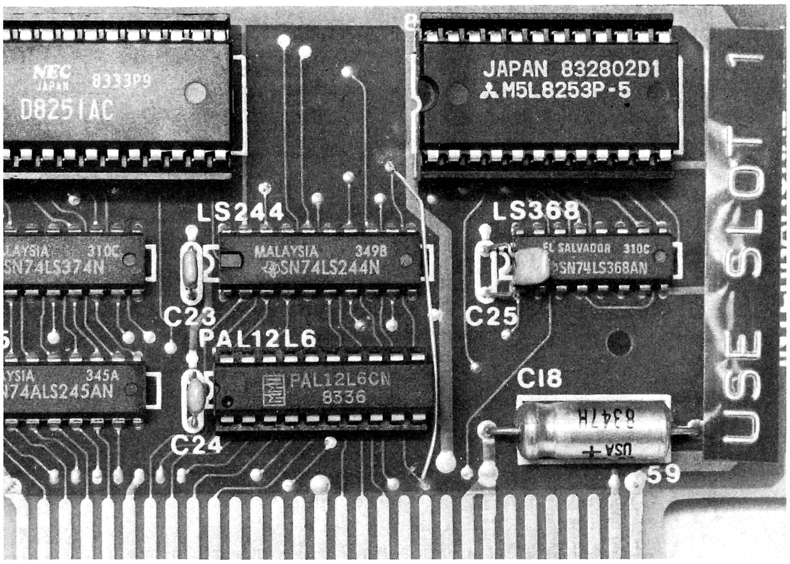
CDE SOFTWARE
948 Tularosa Drive
Los Angeles, CA 90026
(213) 661-2031
Mon-Fri 9:30-5:30 Pacific Time

CR-103 Modification for Improved Operation with Valdocs 2 and 3

By Jim Hansen

This simple modification takes but a few minutes and will make life much easier when using MAIL. Only for those who dare to live life to the fullest!

If you have experienced random problems with your CR-103 modem while using Valdocs 2 or 3, this modification may resolve most of them. The original modification was supplied by RSI and is available on many bulletin boards including EW's (603-487-2501; ”CR103FIX.TXT” on drive A0:), we're running this story along with a photo to show the fix. The procedure is simple, takes but a couple minutes and will save you some money if you do it yourself.



Closeup view of the modification area on the 103 board. Just a tiny cut is all that is needed to break the run from pin 39.

The original CR-103 was developed back in the Valdocs 1 era as a standard peripheral to be installed in any slot in the QX-10 expansion area. As far as we at EW are aware, only one problem existed with this combination: Valdocs versions through 1.18 could not *pulse* dial the number 0. (The modem was told to send 256 "clicks" rather than 10.) Tone dialing worked fine. Version 1.19 corrected the pulse dial problem.

With the advent of V2 and TPM-II, some users have reported problems with auto dial, answering properly, printing from mail and storing while in mail. Other assorted unhappinesses are also possible. The primary reason for this gloom is that Valdocs 1 and the CR-103 did not operate in an interrupt mode, while V2 and V3 prefer it.

This modification simply *adds* interrupt capability to the CR-103. No other change is involved. The modification can be removed later if you wish, but there is no reason to do so. If you can handle a soldering iron and a razor knife, you should have no trouble installing it at all.

Before you begin, check the revision level of your modem, printed in the lower left corner on the component side of the circuit board. Your modem must be either revision B or C; if it is a revision A modem, don't go any further. There's nothing that can be done for it. It is possible that on some revision B boards you'll still encounter some problems, but largely they'll be gone after you've done the deed.

On the component side of the board, locate the eyelet directly above pin 39 of the card edge connector. You can find it by counting (by twos) down from the pin marked 59, or up (again by twos) from the one marked 1. (The component side of the board has the odd number pins; the solder (or back) side has the even ones. The eyelet is just to the left of a "fat" trace running up the board.

Taking a sharp razor knife or other cutting appliance, and referring to the photo, cut the trace leading upwards from the eyelet just located. Do it away from the eyelet so it won't be damaged. It doesn't take much of a whack, so use care. You are committed after this step!

Now find the first eyelet to the left of pin one (it's the one on the lower left corner) of the 8253 integrated circuit. (This is the big chip in the top right corner of the board.) The eyelet you're after is parallel with the pins of the 8253 and about 1/4 of an inch to the left of it and is connected to a trace leading downward that disappears between pins 11 and 12 (the top right-most two pins) of the 74LS244 chip located just below and to the left of the 8253.

Having found this eyelet, connect a wire from it to the one next to connector pin 39, the one you just cut the trace from. Use a small diameter solid conductor wire, such as number 30 wirewrap wire if you can get a couple inches of it. Two little dabs of solder on the jumper and it is all over, heh, heh, hopefully for the better. Check everything to make sure you haven't left any clippings or extra solder where they don't belong.

Once the modification is in place, your CR-103 should only be used in slot 1, the one towards the middle of your computer. The reason? Each slot is served by a particular interrupt priority level and MAIL expects it on this one. The modification will have no apparent effect if the 103 is plugged into any other slot.

Box up your computer, connect the phone line and you should be all set. If the stress and anxiety involved with doctoring your 103 is a little much, most dealers can make this fix for you. But be sure to get a quote before handing them the board. Some will try to charge a minimum rate for use of their $4.00/hour students that will be more than you paid for the modem. ★

Tips & Tricks Wanted

Epson World will pay you with a free Disk-of-the-Month for every tip, trick or piece of trivia we publish. Nope, you won't get rich, but consider the obvious value of fame and immortality once you're published. The whole world is waiting for your input. Don't worry about writing your tips formally. Just jot them down or send us a letter, making sure you include your name and return address.

Epson World Magazine Box 369 New Boston, NH 03070
(603) 487-2500

EPSON & COMREX PRODUCTS
NOW AT AFFORDABLE PRICES!
(Too Low To Publish)
NEW AND DEMO UNITS

Partial List

QX-10 + Hascii Enhanced Software
QX-16 Most Epson Printers
HX-20 + Software + Accessories
PX-8 + Accessories + Plus Software

Most Comrex Printers
✓ ✓ Monitors CR 103 Modem

Titan QX-PC2/192-256•512K

AAA LIQUIDATORS
8417 La Palma Ave., Suite 196
Buena Park, Calif. 90620
(714) 994-6472
Mon. - Fri. 8:30 - 5:00 Pacific Time

Monsters Away

THE OFFICIAL
NIGHTMARE PREVENTER
MONSTERS AWAY
CONTENTS UNDER PRESSURE

This pleasant smelling room aerosal goes into cracks, under beds, into closets and computers, and dissolves all monsters it touches. Great for kids with nightmare problems or programming bugs.

PJ Industries Inc.
Box 234
New Boston, NH 03070
$3.00ppd.

The Mail Bag

This month Epson World received numerous replies to a mailing sent to all known user groups. Many lamented the lack of support available for user groups. This one is typical:

Our user group is alive and well. We are not big, but loyal. In our third year, our group has approximately 22 members with an average attendance of 10 at our monthly meetings. We have no dealer support except as afforded by the Epson user group support structure. We are literally dependent upon each other for our survival.

Dewey R. Myers
Gainsville Epson Users Group

Many user groups have discovered that growth is dependent on publicity, particularly in more rural areas:

Our membership is very scattered and we have no Epson dealer anywhere in the vicinity. We have been growing lately as people in other communities discover our existence, but we do need publicity.

Jean C. Thompson
ECHO Epson User Group

After going through several boxes of letters stored by Camden, we found several letters about this subject:

Getting good information is becoming more difficult. The Equity owners also need some support. I think we would all prefer good, solid information to glossy paper and pretty pictures. I am glad to hear that you will continue the build-it-yourself type of articles as they become available.

Judy Sharp
Albuquerque, NM

Another reader asks for more build-it projects:

I especially like the articles with projects to program or build. I would like to get maximum use out of this machine. How about an article on adapting a hard disk? A thousand dollars seems kind of steep for one when I see so many in the IBM mags for half that much. How about making a parallel switch box?

Dana Reedy
Gresham, OR

We'd love to put together a cheap way to add hard disks to your system. But the simple facts are that you'd have to start with a $300+ drive and muck around with the controller more than 99% of our readers could hope to do on their own. After that, you can start work on the software drivers and installation. This is not a trivial task either.

A better approach might be to buy the cheapest clone you could find and make a file server...then you could run a half dozen or more QX-10's from it. A parallel switch box is easier purchased at $50 or $60 dollars than made, although we keep getting questions on this. We'll think about it.

There are do-it-yourself projects where we, as Epson World, cannot and will not participate:

I have read in a previous article that said that dBase III+ would run on my Titan board if the copy protection were stripped off. How do I do this?

(Name Withheld)

There are a variety of ways of doing this, but the solution we at EW prefer is to purchase and use only unprotected software.

Here's a correction for the PAEUG:

Your July issue contained an out of date number for our electronic bulletin board. The Philadelphia EpsonNet can be reached at (215) 76-EPSON. It operates 24 hours a day at 300 and 1200 baud. We specialize in QX-related news, reviews and software with currently 25 free public domain programs for downloading.

Steve Stecklow
President, PAEUG

We close this month's mail bag with these two letters about RSI and Valdocs:

1. Valdocs is great, 2. Valdocs is late. I have heard that as often as a bad TV commercial.

It is easy to sit back and criticize as some kind of an "arm chair strategist", but I'd like to see one of these critics produce something comparable to Valdocs+.

I did not care much for the tongue-in-cheek criticism of RSI in the May issue of EW. Let us support and back up the people who did not abandon us, like so many other software producers have done.

Leon Papazian
Palm Coast, FL

Don't read After Hours, Leon.

I got a chuckle out of the note on page 3 of the September issue in the boilerplate. Let me know if I won a Disk of the Month.

I was going to write in any case to thank you for an excellent issue which, dispite its slimness was rich with content.

Every best wish for success in this venture. Even though I am somewhat appalled at the high cost of subscription, I will still ask: would it help you to ask those subscribers you've taken over from Epson Connection to prepay the continuation of their issues after next year? Most of us understand the importance of cash flow in start-ups of a new enterprise.

Leslie L. Clark
Edgewater, NJ

Thanks for the compliment, and yes, it would help. Pat and I took over EW with about $70,000 of subscription liabilities. EC and Camden spent that money long before I took over, so these subscriptions are paid for out of my pocket. It costs about a dollar to print and ship a copy of EW to each of you, plus editorial costs. I wouldn't mind contributions as you suggest, but the most I'll ask is for you folks to renew promptly and let our advertisers know you care.

You were right; RSI filed for protection from their creditors under Chapter 11 of the Federal Bankruptcy Laws on September 18. The company is going to attempt a reorganization, not liquidate. The case file listed only one stockholder who held more than 20% of the company: John Christian Rutkowski, although 50 stockholders were claimed.

In its new catalog titled The Technology Catalog, Volume 1, Issue 1, Val-Ware Distributors, Inc. included the following item:

Mail Bag—Continued on page 18

From the Publisher

Publishing a monthly magazine with a limited staff is a piece of cake; all you have to do is work day and night. It's a little groggy out here right now. I am writing this at 2:10 am. . .hope this makes sense!!

By now you've gotten two editions of the new Epson World. Presently the inner pages are printed on 40 pound stock. This makes a thin magazine. I didn't want to switch to non-coated paper which would be thicker and cost the same because reproduction is not as clean. Since you don't get much but feel out of thick paper, we may leave it like this for a while. We're still looking around.

You've probably noticed the cover wrapper. Yep, still there, like it or not. Actually it serves two purposes. Your magazine will arrive in much better condition since it serves as a protective cover, and I get to call your attention to your subscription status a lot cheaper than mailing a letter. The cover wrap will be the only renewal notice you'll get for now, so pay attention to the expiration date in the top right corner of your label and we'll be together for a long time.

By the way, please send us a copy of your mailing label when you send a change of address. We send that directly to the place that makes the labels and assures that any mistakes are made by them, not us. Also, until our second class permit is approved, the post office does not forward EW to you unless you've made an arrangement to pay the postage. What happens is they rip the cover off (the little savages) and send it back to us with a bill for 30 cents. Often without a forwarding address.

How many of you take pride in reading every word in Epson World, your favorite magazine? I did a test which you'll find printed in the last sentence of the fine print at the bottom of page three in last month's issue. My congratulations to Keene Little, Ellen Faller, Cole Davis, Leon Wigrizer and Leslie Clark (*the* great Leslie) who read it and either called or wrote. So far we've had only 8 out of nearly 14,000 people spot it. Be warned, it pays to read this rag.

As many of you who have called have found out, we do have a phone here. But you may have tried to reach us and not gotten an answer. That is by design. You see, there are times when there isn't anyone around to pick up the phone, particularly in the middle of the month when we are doing pasteup or are on the final editing run.

I refuse to put an answering machine on the line because when it answers you're hooked for the call and only get to talk to a robot. Worse yet, you might want me to call you back. Rest assured, when you do get through, you get to talk to a real human who enjoys hearing from you except when the mud is really flying.

Besides Epson World, Camden Communications also published a monthly newsletter called Geneva News. Since this newsletter is no longer produced, these subscriptions will be filled by Epson World. Welcome aboard!

Probably the question uppermost in everyone's mind is what are we going to do for support now that RSI has effectively left us. The answer is that unless the Secret Project described last month comes to life, what we have now is what we get.

Is this all that bad? I think not, particularly if you look at what we've been getting from RSI and Epson over the last year anyway. It is a matter of record that the support given RSI was due largely to one Jim Jeter. He is still alive and well and in touch. We won't miss the rest of the group since they represented largely paper shufflers.

And support from Epson is largely, well, not much. I had been hoping to get hold of one of the newer Equities, but no dice for now. They can't seem to make enough to spare the press any, and, once they ship it out they want it back in 90 days or to sell it to whoever got it. How do they think we are supposed to carry on continuing editorial support without samples of the product line?

I basically told them not to bother shipping the system.

You'll probably find that the best and certainly most cost effective sources of support are

Publisher—Continued on page 32

Publisher—Continued from page 31

going to be your user groups, the various bulletin board systems and, dare I say it, Epson World. Keep in mind that the support you get in the future is largely going to be the same you give.

The concept of eternal free support from RSI or Epson was a fairy tale anyway. Once they got your money, you represented a business liability, like it or not. On the other hand, Epson World can give you continuous support and a national forum because you pay for it every year, and I think we can do better than either RSI or Epson ever did.

On the subject of advertisers, one of the best things you can do for EW is to support them. Loudly. If you think you took a beating over the last few months from the shabby treatment Camden gave, consider the problems handed me when the advertisers noticed no results from ads they paid for over the same time frame.

Central Computer Products, in particular, could use a few kind letters from you, perhaps requesting a copy of their new catalog. You might also comment that the ad hasn't been changed in quite a while and that you'd like to see some new stuff. They carry a tremendous amount of product that works on the QX line, but you can't buy it if you aren't told about it, right?

Guess that's about it for this month, gang. Once again, if you write and need a personal reply, please send a SASE; I promise you'll get a quick, but brief reply.★

User Report—Continued from page 25

this contact the Post Office yourself. They say that they are investigating.

5. The California Attorney General has had many complaints from customers who feel that RSI has taken their money and not delivered, both hardware and software. If you wish to confirm this call them.

6. Rising Star has broken promises to customers and suppliers in the past. Many of the companies who have sold to RSI can tell their own story. For a list that you can use to confirm this contact the Bankruptcy Court.

I have supported Valdocs for some time, and will continue, but it seems rather obvious, to me anyway, that supporting Rising Star is just NOT in MY best interests. Right now RSI is letting some enthusiastic users (I still count myself in that category, when it comes to VAL+III) come to their defense in the face of RUMORS. Well what I have just laid out is not rumor. Check it out. Mike

---

DATE: 10/08/86
SUBJ: RUMORS?!

Mike, I would like to hear who you say is accusing you of others here of spreading "rumors". The present condition of RSI in Chapter XI is PUBLIC RECORD, and can be confirmed by checking the Los Angeles County Clerk's office.

I am as positive and supportive of the Valdocs "Concept" as anyone, and only hope that something with another firm can be worked out.(See messages about support by David Robinson). My earlier comments on the more well known excesses by RSI during the Epson era was mostly for discussion (the fall of Rising Star and the reasons behind it). Perhaps it is best if we cease with that, as well as inuendos about Switzerland.

Whether or not these things have gone on could be disputed. However, anybody who thinks that the Chapter 11 proceedings are "rumor", or that RSI is still shipping with business as usual is fooling himself! This reminds me of some of the Soviet propaganda, where they insist that there has been no invasion or occupation of Afghanistan, or the extremists who say that the moon landing was all a big charade and hoax staged by the government.

Some things are certain: RSI is bankrupt! Face it! David

DATE: 10/08/86
SUBJ: On the other hand

One thing I would like to mention - RSI can still be contacted through their BBS which is now at Jim Jeter's home.

While some less than complementary things have been said about RSI lately, it certainly does not apply to Jim Jeter who is still there, working away against unbelievable odds that his job will be there much longer. He is a real trouper, and he and the few others still there (like Chris Cummings, et al) should be commended.

Earlier, I mentioned some fairly well known details about RSI some time ago. While these things and more support the "lousy business" theory for the fall of Rising Star, those statements do not apply to the "core group" of individuals who have stuck it out.

Now, it is indeed sad that unless we hear otherwise, I must agree with Mike that you best not send your money to RSI or expect any further shipment of outstanding orders. It is sad, but a fact of life. David

---

DATE: 10/10/86
SUBJ: RISING STAR

If you wish to contact Rising Star Industries counsel:

William H. Brownstein
3580 Wilshire Boulevard
Suite 1800
Los Angeles, CA. 90010
213-381-1537

Reference Case #LA 86 17357WL
U.S. Bankruptcy Court
Central District of California

You should also note that Dun and Bradstreet indicates that the information that they have shows that RSI does not intend to reopen. I have advised Jim Jeter at the RSI BBS of this if he wishes to have it corrected. Mike

---

DATE: 10/11/86
SUBJ: Off Again

Chris Rutkowski once referred to me as a prophet. It wasn't meant as a compliment, but I was flattered anyway. Way back in March '86 I left my first message on this system. I was predicting the coming RSI demise and caught a lot of flak from Chris Rutkowski, Chris Cummings (she really lambasted me), and a great many StarTech readers. Chris Rutkowski even went so far as to leave a special message in the upload area (remember PROPHET.TXT?) referring to my message and arguing that "rumors" such as mine were self fulfilling prophecy.

Chris R. and Chris C. are the only people who actually worked in the administrative offices of RSI who had anything nice to say about that company in this public forum. You probably know what I think about their opinions.

I haven't mentioned Dennis much in my messages because he always seemed to be able to speak for himself. He may have been guilty of an over-abundance of zeal, but he did speak the truth. So did I. But neither of us could convince anyone to take what Chris and RSI said with a grain of salt.

I see by the messages here that that has changed. Now after having have been repeatedly hit over the head with RSI's shenanigins you're changing your tune. I notice, though, that there are still some die-hards out there.

I don't advocate wholesale QX-10 dumping and I'm not trying to discourage third party development. Hell, I have my own QX-10 software on the market. But I do suggest being very careful.

I've said most of what I wanted to say except for one thing: I think a lot of you owe Dennis an apology. He tried to warn off those who would send bad money after good, and for the most part he was ignored. No one who calls in and leaves messages here (besides me) worked in the administrative offices and saw the things he saw.

You should have taken note of that and believed him. Paul ★

Wanted

Epson World will pay you with a free Disk-of-the-Month for every tip, trick or piece of trivia we publish. Nope, you won't get rich, but consider the obvious value of fame and immortality once you're published. The whole world is waiting for your input. Don't worry about writing your tips formally. Just jot them down or send us a letter, making sure you include your name and return address.

Epson World Magazine Box 369 New Boston, NH 03070
(603) 487-2500

Help Wanted

EW is looking for an alert person to serve as a contributing editor for the MS-DOS column. If you have a good knowledge of MS-DOS, can write reasonably well and are more interested in fame and service to our community than money and would like to take a crack at it, drop me a line here at Epson World. I'll be in touch.
---jmh

Express—Continued from page 27

So here's an AUTOEXEC.BAT file that does just that:

```
REM Autoexec batch file to set
REM the PATH and PROMPT defaults
REM in our computer system.
PROMPT $P$G
PATH c:\dos;c:\batch
```

You may or may not already have an AUTOEXEC file. If you do, just add the PATH and PROMPT lines to it and you're all set. Otherwise, copy this one and try it out. It will complain about an invalid directory if you don't have a BATCH directory and it tries to search there. But otherwise, it really works well if you're lazy like I am. ★

Finnegan's Flea Market

Epson World welcomes you to make use of our low cost display and classified advertising department. Rates are $50 for a one by two inch box ad (or $100 for a two by two), and $5 per 30 character line (minimum 4 lines) in the classified section. All Finnegan ads must be paid in advance, and may be placed by phone, on our bulletin board (603-487-2501) or by mail. Be sure to include your full return address, MasterCard or Visa number and expiration date.

ECHO, Epson User Group of Northeastern Wisconsin, meets on the 3rd Thursday of each month at Fox Valley Tech. Inst. at 7pm. Mailing address: Jean Thompson, Sec., 913 E. Glendale Ave., Appleton, WI. PH: 414-734-2391.

WANTED: Information on the availability of working parts for QX-10/16 (keyboards, CPU's, displays, Titan boards, etc.). The Albuquerque Epson User Group is exploring the possibility of acquiring a system from unused spare parts. Contact Michael Sharp, 6912 Blossom Pl. NE, Albuquerque, NM 87111.

FOR QX AND PX NEWS and free software, call the Philadelphia Epsonnet Electronic Bulletin Board (215) 76-EPSON. We operate 24 hours a day at 300/1200 baud. A service of the Philadelphia Area Users Group.

FOR SALE—New Condition Teletype Model 40, a 300 line per minute chain printer with RS-232 interface ($900) and Model 43 hardcopy 110/300 baud portable terminal ($300). Both in perfect working order with less than a box of paper worth of use. Jim Hansen, Box 369, New Boston, NH 03070. Prices somewhat negotiable.

HOUSTON'S EPSON Users Society meets on the 2nd Wednesday of every month, 7:30pm, at the School for Law Enforcement and Criminal Justice, the Geo. Washington Ed. Center. Write us at Box 37049, Houston, TX 77237 for a free complimentary copy of the Newsletter, Hi Society. Visitors welcome at the meetings, and there are Special Interest Groups (SIGS) for Peachtext, Valdocs and MS DOS users.

US/CANADIAN OWNERS—EPSNLINK wants YOU! Subscription now available to EPSNLINK—THE INTERNATIONAL QX/VALDOCS NEWSLETTER. Informative. Readable. Entertaining. 13 pages of news & user tips. Sample copy: $3.00. Year subscription: $25. Write to: EPSNLINK, 79 Castle Knock Rd., Toronto Ontario, Canada M5N 2J8.

NEVER USED—Peachpak Software Accounts Receivable, General Ledger. For use with CP/M. Call (800)-622-6312. Ask for Linda.

WANTED: A good copy of the February, 1986 issue of Epson Connection. Duane Becker, Box 366, Kimball, MN 55353.

QX-10 with RX80+ w/Letterwriter installed. $700 takes both. R. Navarro, 413 S. Grove Ave., Oak Park, IL 60302.

FOUR NEW LQ-1500 printers still sealed in original box. First come, first served at $1075 each. Brent Crockett, 14312-56th Avenue N.W., Gig Harbor, WA 98335 (206) 857-7222.

Finnegan—Continued on page 36

Help Wanted

EW is looking for an alert person to serve as a contributing editor for this column. If you have a good knowledge of MS-DOS, can write reasonably well (we'd have edit the tar out of you otherwise) and would like to take a crack at it, drop me, Jim Hansen, a line here at Epson World. I'll be in touch. ★

Riding With the Dead Horse Computer Company

By Nan McCarthy

Well, DH Computers, Inc. is off to a rousing start. The response to our product line has been overwhelming. People all over the country have been calling to find out when our first product will be released.

We tell them "real soon now" and that seems to satisfy them, probably because for years now they've been hearing promises of wondrous new products that will be released "in a couple of weeks," or "as soon as our programmers finish debugging it." You know how it is.

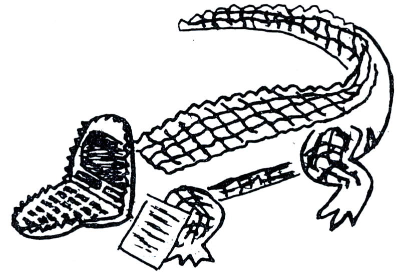
This month we release a brand-new, state-of-the-art piece of software. But first, let me tell you about my new Mercedes. I took delivery on it last week, and it's a beauty. It's pure white, inside and out, and equipped with AM-FM stereo with cassette deck, graphic equalizer and CD.

We decided the color was so nice that we wanted the office furniture to be the same color white. Did you ever try to drive a car into an office furniture showroom? Let me tell you, it's not all that easy. Anyway, we did find a good match. The furniture will be delivered as soon as the wall-to-wall carpeting is installed.

The carpet installer must be a dropout from the software industry. Every time I ask him when he's coming to do the carpet, he says, "Next week." And as we all know, next week never comes.

In case you're wondering how we became an international corporate conglomerate so quickly, here it is. My cousin dropped out in the sixties and moved to Australia. He's still there, so I asked him to become our Australian distributor. (The conversation went like this: He asked, "Like do I have to do anything?" I replied, "You just have to be." His answer was, "Oh, like far out.")

Now to our new product. We call it the NEGATIVE REINFORCEMENT SPELL CHECKER. This product fits in with our image of a Third Wave company with a Mission to change the world. Our Meaningful Software will take you to a Higher Level of Consciousness. Our team of resident psychologists tested this product on a representative sampling of rats, and they were extremely impressed by the outcome.



The Alligator computer at work.

The first release of our spell checker is for our Alligator computer. As you may recall from last month's column, the Alligator is our designer model; it comes in Lacoste green and has a lifelike pink color inside its mouth.

In addition to doubling as an *objet d'art* in your living room or den, the Alligator features a hi-res compact video monitor and our exclusive KROK keyboard. KROK stands for Knowledge Representative Orientation Keys. This is truly the keyboard of the future, allowing you to decide what the keys should represent. The QWERTY and DVORAK keyboards will soon be obsolete, not to mention the ASCII and HASCI models.

Now here's where the negative reinforcement comes in. Suppose you're typing along, and you make a spelling error. The Alligator's jaws snap shut and bite your hand. You can easily open the jaws again and continue on your way, but since the Alligator's bite is painful, you'll soon learn not to make all those dumb spelling and typing errors that you've been making all your life.

Here's a product that will truly Change Your Life and make you a Better Person while helping you get through the drudgery of those daily typing tasks more efficiently.

We know you're just aching to find out how this all-new, state-of-the-art, not-so-user-friendly software can be yours. We've come up with a plan to make software and hardware buying painless (even if spelling errors aren't). We call it our LAYAWAY PLAN.

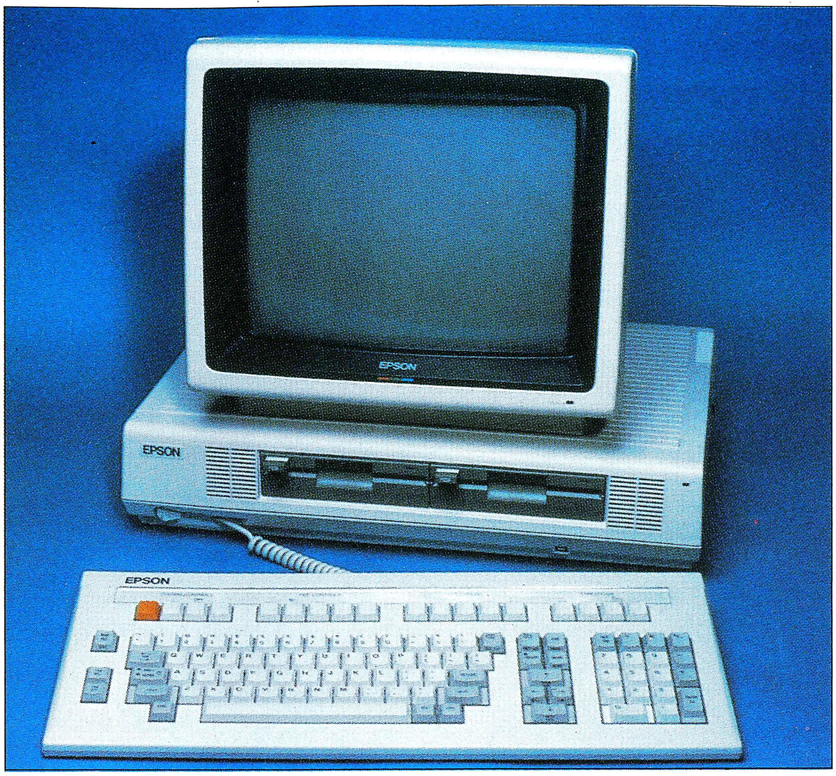
Actually, the carpet installer came up with it the last time I called him to find out when he was going to put down the carpets. (He said, "Next week.") I may hire him to be our Marketing Director, in spite of the fact that I don't believe in the whole concept of marketing. Here's how the LAYAWAY PLAN works. Send your check or money order now. We'll sock it away and lay the products on you when they're finished.

Next month I'll tell you about our first computer peripheral. We know it'll be another winner. It caused quite a stir in our rat lab. ★

EPSON® QX-16

DUAL PROCESSOR

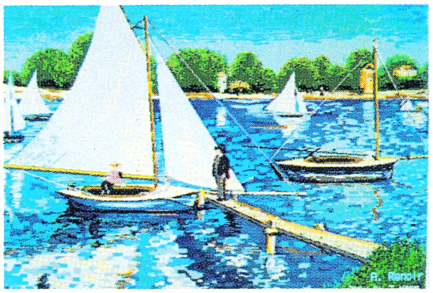
INCLUDING VALDOCS + III



The QX-16 includes

- 512K RAM
- 2 quad density 720K floppy disk drives or 10 MB hard disk
- Exclusive VALDOCS + III
- 12″ high resolution Monitor (640 × 400 pixels)
- IBM PC video emulation board
- RS 232-C and parallel ports
- 3 expansion slots
- MS-DOS 2.11 plus CP/M-80 B2.26 operating systems
- GW-Basic
- 1 year warranty

QX-16 DUAL FLOPPY SYSTEM (including CPU, Keyboard, Monochrome Monitor & Software)	**$ 995**
QX-16 10MB HARD DISK SYSTEM WITH 720K FLOPPY (includes CPU, Keyboard, Monochrome Monitor & Software)	**$1395**
EPSON COLOR MONITOR (Q804A) w/Sub-Board for QX-10/16 (Including Logimouse C7, a $ 100.00 value.)	**$ 595**



Actual VALPAINT Screen Photo.

VISA

ELECTRONIC
MAIL
(213) 551-3139

BUYER'S BULLETIN
BOARD SYSTEM
(213) 551-3143

MasterCard

International Trading Corp.
2029 Century Pk East, Suite #2690
Los Angeles, CA 90067

CALL NOW! **(213) 277-1396**

While–They–Last!

Advertisers Index

Support our loyal advertisers!

Advertiser	Page
AAA Liquidators	29
A1 Computers	13
CDE Software	27
Central Computer Products	CII
Electrified Discounters	5
Epson America	CIII
Disk of the Month	11
Dresselhaus	3
Electrified Discounters	5
Forest Micro, Inc.	25
Green Tree	3
Green Tree	13
International Trading Corp.	35
James River Group	21
Micro Art Programmers	18
NewTek Industries	19
Nicklelodian Software	15
PC Sig	22
PJ Industries, Inc.	29
P.R.O. Systems	18
Semi-Disk Systems, Inc.	CIV
Star Technology Corp.	36

NEW EPSON QX-10 COMPUTERS!

With VALDOCS, CP/M & Full 1 Year Warranty.

HURRY! QUANTITIES ARE EXTREMELY LIMITED

Reconditioned QX-10's with 30 day trial, limited warranty. Prices vary, test and condition reports available.

QX-10 SERVICE AND DISK DRIVE RECONDITIONING

STAR TECHNOLOGY CORP.
900 170th ROAD
CARBONDALE, CO 81623
303-963-1969

Finnegan—Continued from page 33

NEED LOW COST new or used hard disk for QX-10. Father J.M. Carillo, Comboni Missionaries, 804 E. Compton Blvd., Compton, CA 90220 (213) 321-0240.

FOR SALE: QX-10 (used) $600, QX-16 (new) $850, QXPC2 (256K, used) $250, QXPC2 256K exp. bd. (used) $100, 2meg SemiDisk w/BBU (used) $750, COMREX1510 (used) $750, COMREX1510 (used) $700, and other new/used equipment and software. 901-744-7033.

EW READERS SAVE $10 on HMM-II and $20 on Personal Asset Manager. Call Nickelodeon Software at 503-692-3732 for information.

10% OFF ANY PRODUCT shown in our ad on page 18 when you mention Epson World.

Micro-Art Programmers
614 Alameda Padre
Serra, CA 93013
(805) 962-0922.

Call Doug Davis for New QX-10's, Reconditioned QX-10's, Clunkers, Parts and Service, and Disk Drive Reconditioning. Star Technology Corp., 900 170th Road, Carbondale, CO 81623. 303-963-1969.

AVATEX: 1200 Baud External Modem. PIBTERM Software for QX-16 included. RUNS under MS-DOS. FREE Compuserve Offer Included. LIST: $289. Your COST: $119. ELECTRIFIED DISCOUNTERS (203) 937-0106.

HELP WANTED: C programmer to convert MBASIC programs to run under MS-DOS. Contact Nickelodeon Software, PO Box 974, Tualatin, OR 97062.

SUNSET SYSTEMS
has got your Drive!

20 Meg PDX-20 Drives (1 year warranty)	$1095
10 Meg Comfilers (90 day warranty)	$795

Upgrades, used hard disk hardware, parts available. For orders and further information, call David Robinson at 503-235-9068 evenings and weekends, Pacific time.

1000 Business cards raised printed w/logo.
One color—$17.50 del.
Two color—$22.00 del.

1000 #10 envelopes, commercial white, flat corner printed.
One color—$25.00 del.
Two color—$32.50 del.

1000 Hi-white wove (20lb.) bond, raised printed.
One color—$35.00 del.
Two color—$50.00 del.

DFS computer forms catalog—hundreds of items. Only $2.00 for postage.

TERMS: Check with order. Allow 4–8 weeks delivery.

JALCO DISTRIBUTING
RFD #2, Box 539-3 Norris
Epping, NH 03042
(603) 679-2303

COLORED TRACTOR FEED PAPER and RX/FX ribbons. Great for making cards and posters with CARDSHOP! Heavyweight 60 lb. tractor feed paper (red, blue, green, gold, white, pink, parchment, yellow). $8.95 for 100 sheets. Sampler pak in all colors (160 sheets paper, 80 small envelopes, 80 large envelopes) just $18.95. RX/FX ribbons (blue, red, brown, purple, yellow) $4.99. RX/FX 100 ribbons $5.99. Orders shipped UPS COD.

C.L.A.S.S. Computers
315 Washington
Marquette, MI 49855
(906) 225-0433

JALORE CO.
RFD 2, Box 539-3 Norris
Epping, NH 03042
603-679-2303

MINUTEMAN 300SS UPS
Fully Automatic Synchronized Sinewave Power Supply with 1 msec Transfer Time.

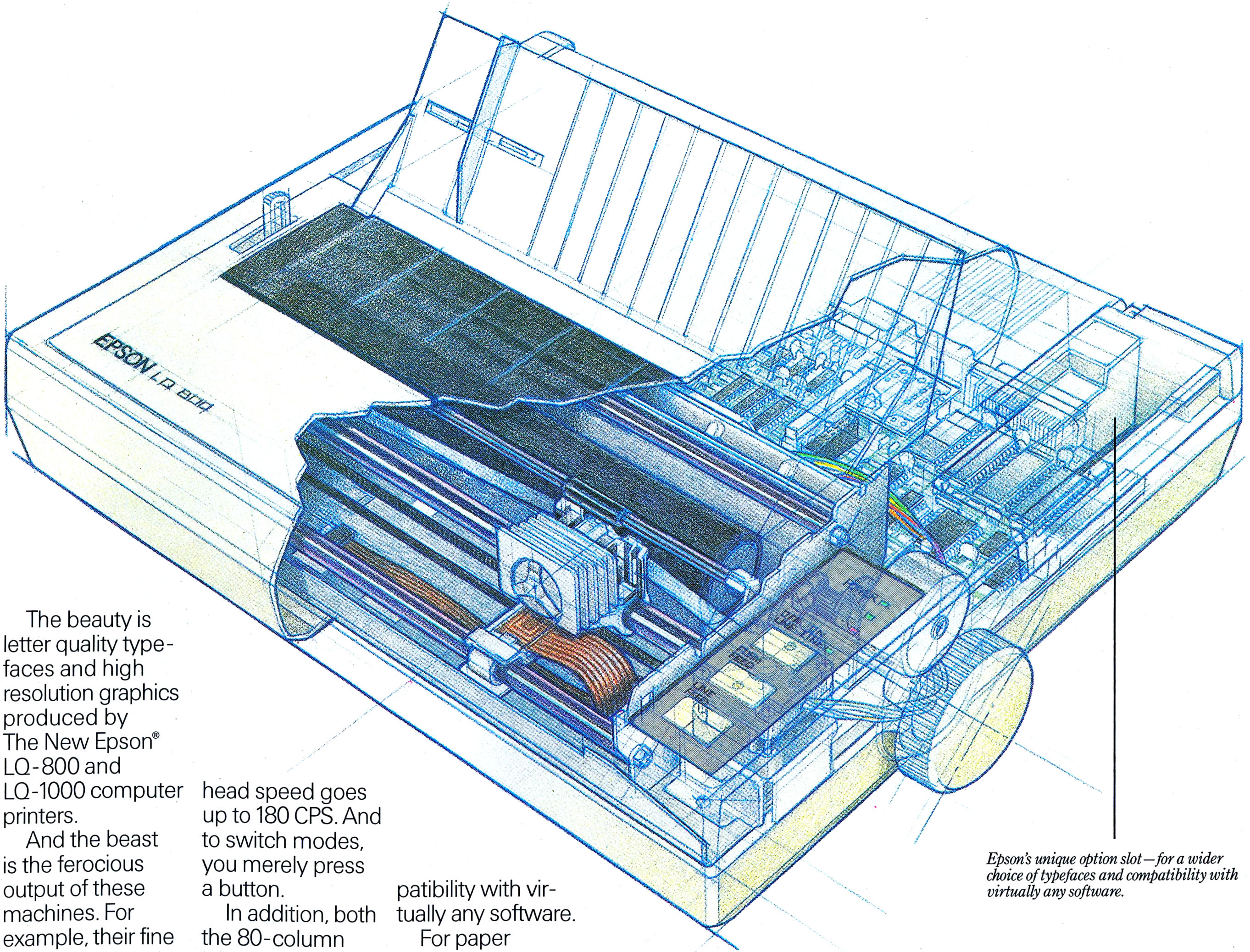
PROTECTS against: Blackouts, Interruptions, Brownouts, Surges to 100 joules, Spikes. 3-Stage EMI/RFI Filtered Noise LED Display Audible Alarm.

$549.00 p&h. Terms: Cashier's or Certified Check, Mastercard or Visa. Allow 4–8 wks. del.

TITAN MS-DOS
Available for QX-10 in 256K and 512K. Will beat any previously advertised prices. Limited quantity, subject to available inventory.

AAA LIQUIDATORS
714-994-6472

BEAUTY AND THE BEAST.



Epson's unique option slot—for a wider choice of typefaces and compatibility with virtually any software.

The beauty is letter quality typefaces and high resolution graphics produced by The New Epson® LQ-800 and LQ-1000 computer printers.

And the beast is the ferocious output of these machines. For example, their fine wire 24-pin heads create extremely high character resolution in the letter quality mode at a printhead speed of 60 characters per second. That's three times faster than the average daisy wheel.

In the draft mode, the printhead speed goes up to 180 CPS. And to switch modes, you merely press a button.

In addition, both the 80-column LQ-800 and 136-column LQ-1000 are extremely versatile. Not only are more than 200 typefaces already built in, but your options include a choice of "Font Modules" for even more typefaces and "Identity Modules" for compatibility with virtually any software.

For paper handling, you can choose either standard friction feed or an optional tractor or cut sheet feeder. And a built-in buffer gives you fast access to your computer while the printer is running.

Naturally, all this high technology would be useless if we didn't also offer high reliability. Which is why Epson comes with a full one-year warranty.

And the real beauty of the warranty is, you're very unlikely ever to have to use it.

For more information on Epson's full line of dot matrix, daisy wheel, ink jet and color printers, call (800) 421-5426. Or (213) 539-9140 in California.

EPSON
PRINTERS

Epson is a registered trademark of Epson Corporation.

The Peak of Performance

SCALE THE HEIGHTS OF PRODUCTIVITY

Sure, you've proven that in your hands a computer is a productive tool. But if you haven't teamed up with a SemiDisk you have heights yet to climb!

IT'S NO MERE RAMDISK

SemiDisk has been leading the way for Disk Emulators since their inception. If you've seen RAMdisks you know what it's like to load programs in an instant, and read or write files without delay. Unlike alternatives, the SemiDisk offers up to 8 megabytes of instant-access storage while leaving your computer's main memory free for what it does best - computing!

KEEP A GRIP ON DATA

Go ahead, turn off your computer. Take a vacation. With the battery backup option, your valuable data will be there in the morning even if you aren't. You'll sleep better knowing not even a 5 hour blackout will sabotage your files.

NEW LOWER SEMIDISK PRICES THAT WON'T SNOW YOU UNDER

	512K	2Mbyte
IBM PC, XT, AT	$495	$995
Epson QX-10	$595	$995
S-100, SemiDisk II	$799	$1295
S-100, SemiDisk I	$595	———
TRS-80 II, 12, 16	$695	$1295
Battery Backup Unit	$130	$130

Software drivers available for CP/M 80, MS-DOS, ZDOS, TurboDOS, and VALDOCS 2.

SEMIDISK

SemiDisk Systems, Inc.
P.O. Box GG, Beaverton, Oregon 97075
503-626-3104

Call 503-646-5510 for CBBS/NW, and 503-649-8327 for CBBS/Aloha, all SemiDisk equipped computer bulletin boards, (300/1200/2400 baud) SemiDisk, SemiSpool trademarks of SemiDisk Systems.